



THE LIBRARY
OF
THE UNIVERSITY
OF CALIFORNIA
LOS ANGELES

Access

9.04

THE
JOHN CRERAR LIBRARY, *Chicago*

A LIST OF
BOOKS IN THE READING ROOM
JANUARY, 1900



CHICAGO
PRINTED BY ORDER OF THE BOARD OF DIRECTORS
1900



1011
436

1011

125725

581
C4312
1900

PREFACE.

By the will of John Crerar, for many years an honored citizen of Chicago, who died October 19, 1889, the residue of his estate, after the payment of numerous bequests, was given for the creation and endowment of a free public library, to be called THE JOHN CERERAR LIBRARY, and to be located in the city of Chicago. The Library was incorporated under the laws of Illinois, October 12, 1894, and was duly organized January 12, 1895.

Having carefully considered the library facilities and needs of the city, the Directors decided to establish a reference library of scientific literature. This decision seemed to them to accord with the business activities by which the greater part of Mr. Crerar's fortune had been accumulated, to exclude, naturally, certain questionable classes of books which his will prohibits, and to favor the supreme aim and object which it proposes.

A series of conferences with the Chicago Public Library and The Newberry Library was instituted, and an elastic scheme was jointly adopted for dividing among them the available world of books. In accordance with that scheme, the special field of The John Crerar Library is that of the natural, the physical, and the social sciences, with their applications. In the development of the Library, the Directors do not propose to make a greatly disproportionate outlay in any one subject within this field. They do propose, however, to make it exceptionally rich in scientific periodicals and publications of learned societies.

The total endowment, which should be sufficient ultimately to allow the making of a good collection within the limits adopted, will not be encroached upon for any purpose. Therefore, while a building fund is accumulating, and the present temporary accommodations remain adequate, the Library will occupy the entire sixth floor and part of the fifth floor of the Marshall Field & Company Building, 87 Wabash Avenue.

A complete catalogue of the Library is printed on cards. Copies of these, arranged by authors and subjects, are placed in the Reading Room for use by the public, and a copy of each title may be found also in the Chicago Public Library, the Newberry Library, and in the libraries of the Armour Institute of Technology, the Field Columbian Museum, and the University of Chicago, in the city, the Northwestern University at Evanston, and the University of Illinois at Champaign. The multiplication of copies in card form, however, is limited by the cost of material and distribution, so that provision has been made, by

electrotyping each title, for the publication of bulletins, as they may be required.

The list of books in the Reading Room has been chosen as the subject of the first of these bulletins. This collection contains nearly three thousand volumes, and is used by the public without any formality. It is intended to include, besides general works of reference, the best books, both advanced and popular, on each important subject within the scope of the Library, and a selection of others either especially interesting in their treatment of the subject or much in demand. Works in languages other than English are included whenever necessary for an adequate presentation of the subject, and the collection undergoes constant revision.

While the Library in making the selection has had the benefit of suggestions from many persons able to speak with authority, it is felt that the collection can be improved greatly, though it is hoped more by addition than by subtraction, and this bulletin has been prepared at the present time mainly as a means of securing valuable criticism and aid, and not as a bibliographical contribution of intrinsic value. As it is also an experiment in the use of electrotyped titles, peculiarities of typographical arrangement have been determined largely by the previous use of the matter on printed catalogue cards, and inconsistencies in the form of entry are due to the fact that it has not always seemed necessary to reprint the cards when a change in method has been made. If the Library can secure expert advice in improving the collection, and can issue small editions at comparatively frequent intervals and at reasonable cost, it is hoped that future editions of this list may prove to be of value to others than readers in the Library.

CHICAGO, January, 1900.

CONTENTS.

SPECIAL CARD INDEXES.....	7
GENERAL WORKS	9
BIBLIOGRAPHY	9
LIBRARY ECONOMY.....	18
ENCYCLOPEDIAS	20
GENERAL ESSAYS.....	25
JOURNALISM	25
SCIENTIFIC SOCIETIES.....	26
BOOK RARITIES	26
PHILOSOPHY AND RELIGION.....	27
SOCIAL SCIENCES	41
GENERAL WORKS.....	41
HISTORY OF SOCIAL SCIENCES AND CIVILIZATION.....	44
STATISTICS.....	49
POLITICAL SCIENCE.....	50
POLITICAL ECONOMY	54
LAW	71
ADMINISTRATION (MUNICIPAL AND OTHER).....	75
MILITARY AND NAVAL SCIENCE	78
CHARITIES AND CORRECTIONS.....	79
EDUCATION	81
COMMERCE AND COMMUNICATION.....	89
MANNERS AND CUSTOMS.....	90
LANGUAGE.....	92
PHYSICAL SCIENCES	102
GENERAL WORKS.....	102
MATHEMATICS	103
ASTRONOMY	107
PHYSICS	111
CHEMISTRY	120
MINERALOGY.....	126
NATURAL SCIENCES.....	128
GEOLOGY AND PHYSICAL GEOGRAPHY.....	128
PALEONTOLOGY	133
GENERAL WORKS	134
ANTHROPOLOGY AND ETHNOLOGY	136
EVOLUTION	139
MICROSCOPY	142
BOTANY.....	143
ZOOLOGY	149
APPLIED SCIENCES.....	160
GENERAL WORKS	160
MEDICINE	162

ENGINEERING	167
AGRICULTURE	175
DOMESTIC ECONOMY	178
COMMERCE	180
PRINTING AND PUBLISHING	180
TRANSPORTATION	182
CHEMICAL TECHNOLOGY	182
MANUFACTURES	187
TRADES	189
BUILDING	191
 FINE ARTS	 194
GENERAL WORKS	194
LANDSCAPE GARDENING	197
ARCHITECTURE	198
DECORATIVE ARTS	199
PAINTING AND ENGRAVING	203
PHOTOGRAPHY	203
MUSIC	205
AMUSEMENTS	206
LITERATURE	207
 HISTORY AND GEOGRAPHY	 209
GENERAL WORKS	209
ATLASES AND MAPS	213
ANTIQUITIES	216
BIOGRAPHY	216
GENEALOGY AND HERALDRY	219
ANCIENT HISTORY	220
EUROPE	220
ASIA	223
AFRICA	224
AMERICA	225
AUSTRALASIA, OCEANICA	232
ARCTIC REGIONS	233

SPECIAL CARD INDEXES

Bibliographia zoologica.

- ¹⁸²¹⁴ **Bibliographia zoologica.** Continued from no. 1. 1896. Zurich 1896-.

Compiled under the direction of H. H. Field, of the Concilium bibliographicum, Zurich.

Card index; filed in Reading Room.

Also published in book form as supplement to *Zoologischer Anzeiger*; has shelf number **016.59 B47**

Clark, Josephine Adelaide.

- ¹⁸²¹³ **Card-index of genera, species, and varieties of plants.** Continued from no. 1. 1885. Washington 1885-.

Filed in Reading Room.

Congrès international de bibliographie des sciences

- ¹⁹⁰³⁵ **mathématiques.** *Commission permanente du répertoire.*

Répertoire bibliographique des sciences mathématiques. Continued from no. 1. Paris: Gauthiers-Villars, 1894-.

Card-index; filed in Reading Room.

Congrès international de bibliographie des sciences **Lo25.4 C76**

- ²¹⁰⁴⁷ **mathématiques.** *Commission permanente du répertoire.*

Index du Répertoire bibliographique des sciences mathématiques, publié par la Commission permanente du répertoire. Deuxième édition. xiv,93,[2] p. Q. Paris: Gauthier-Villars & fils, 1898.

Fourtier, [H.], Bourgeois, —, & Bucquet, —.

- ¹⁹⁰³⁴ **Bibliothèque photographique.** Le formulaire classer du Photo-club de Paris. Formules, notes, renseignements pratiques, recueillis et annotés. Continued from no. 1. 1892. Paris: Gauthier-Villars & fils, 1892-.

Card-index; filed in Reading Room.

Torrey Botanical Club.

- ¹⁸²¹² **Bibliography of American Botany.** Published monthly. Vol. 1-6. 1894-1899. Cambridge, Mass., 1894-1899.

No more published.

Reprinted from *Bulletin of the Torrey Botanical Club*, vol. 21-26.

Card index; filed in Reading Room.

U. S. A. *Department of Agriculture.*

¹⁴³³¹ [Card index to publications.] Continued from no. 1. [Washington 1899-.]

Filed in Reading Room.

U. S. A. *Department of Agriculture.*

¹⁸²¹⁰

Office of Experiment Stations.

Subject index of literature of agricultural experiment stations and kindred institutions. Continued from no. 1. 1888. Washington 1888-.

Card index; filed in Reading Room.

U. S. A. *Department of Agriculture.*

016.63 U58-

¹⁸²¹¹

Office of Experiment Stations.

Key to subject index of literature of agricultural experiment stations and kindred institutions. . . . Revised June 25, 1897. [4] p. O. (Circular no. 23.) [Washington 1897.]

000 GENERAL WORKS

010 BIBLIOGRAPHY

010-016 GENERAL BIBLIOGRAPHIES

Wheeler, William Adolphus.**010.3 W56**

¹³²⁷² Who wrote it? An index to the authorship of the more noted works in ancient and modern literature. Edited by Charles G. Wheeler. [2], 174 p. sq. D. Boston: Lee & Shepard, 1882.

Allibone, Samuel Austin.**Lo15.42 A436**

⁴⁵¹ A critical dictionary of English literature, and British and American authors, living and deceased, from the earliest accounts to the latter half of the nineteenth century. . . . 3 vol. Q. Philadelphia: J. B. Lippincott Co., 1891.

Kirk, John Foster.**Lo15.42 A4361**

⁴⁵² A supplement to Allibone's Critical dictionary of English literature and British and American authors. . . . 2 vol. Q. Philadelphia: J. B. Lippincott Co., 1892.

Georg, Carl, & Ost, Leopold.**Lo15.43 G29**

²²⁻⁹ Schlagwort-Katalog. Verzeichnis der Bücher und Landkarten in sachlicher Anordnung. . . . 2 vol. Q. Hannover: [vol. 1], F. Cruse; vol. 2, L. Lemmermann, 1889-1898.

Contents: [vol. 1], 1883-1887; vol. 2, 1888-1892.

Vol. 2 published under the title: Karl Georgs Schlagwort-Katalog. . . . Bearbeitet von Karl Georg.

Sonnenschein, [William] Swan.**Lo16 S699**

⁴¹⁹ The best books. A reader's guide to the choice of the best available books (about 50,000) in every department of science, art and literature; . . . A contribution towards systematic bibliography. . . . Second edition. [18], cix, 1009 p. Q. London: Swan Sonnenschein & Co., 1894.

Sonnenschein, [William] Swan.**Lo16 S6991**

⁴⁵⁰ A reader's guide to contemporary literature. Being the first supplement to The best books. . . . [16], lxxiv, 775 p. Q. London: Swan Sonnenschein & Co., 1895.

Fletcher, William Isaac.

Lo16.04 F63

- ¹⁷⁹ The "A. L. A." index. An index to general literature: biographical, historical, and literary essays and sketches, reports and publications of boards and societies dealing with education, health, labor, charities and corrections, etc., etc. . . . Issued by the publishing section of the American Library Association. v, [2], 329 p. Q. Boston: Houghton, Mifflin & Co., 1893.

016.05-016.06 BIBLIOGRAPHIES OF PERIODICALS AND
PERIODICAL LITERATURE

Cleveland. *Public Library.*

Lo16.05 C59

- ⁷³⁰¹ Cumulative index to a selected list of periodicals. Authors, subjects, titles, reviews, portraits. Continued from vol. 1. 1896. Q. Cleveland 1897-.

Annual literary index.

Lo16.05 A615

- ⁹²⁷ The Annual literary index, including periodicals, American and English; essays, book-chapters, etc.; with author-index, bibliographies, necrology, and index to dates of principal events. Edited with the coöperation of members of the American Library Association and of "The Library journal" staff. Continued from vol. 1. 1892. Q. New York: Publishers' Weekly, 1893-.

Edited by W. I. Fletcher and R. R. Bowker.

Italy. *Camera dei Deputati. Biblioteca.*

Lo16.05 I88

- ⁹³¹² Catalogo metodico degli scritti contenuti nelle pubblicazioni periodiche italiane e straniere. Parte prima. Scritti biografici e critici. xvii, 517, [1] p. Q. Roma 1885.

——— Primo supplemento. xiv, 173 p. Q. Roma 1889.

——— Secondo supplemento. xxiv, 229 p. Q. Roma 1890.

——— Terzo supplemento. xxix, [3], 338 p. Q. Roma 1895.

Poole's Index.

Lo16.05 P781

- ²⁰⁹⁵ Poole's Index to periodical literature. By William Frederick Poole, with the assistance as associate editor of William I. Fletcher, and the coöperation of the American Library Association and the Library Association of the United Kingdom. Revised edition. 1802-1881. Vol. 1 in 2 parts, paged continuously; part 1: [2], xxvii, 1-700 p.; part 2: [2], 701-1442 p. Q. Boston: Houghton, Mifflin & Co., 1893, c. 1882.

Poole's Index.**Lo16.05 P782**

- ²⁰⁹⁶ Poole's Index to periodical literature. The first supplement from January 1, 1882, to January 1, 1887, by William Frederick Poole and William I. Fletcher, with the coöperation of the American Library Association. xiii, 483 p. Q. Boston: Houghton, Mifflin & Co., 1893, c. 1888.

Lettered on the back: Vol. II.

Poole's Index.**Lo16.05 P783**

- ²⁰⁹⁷ Poole's Index to periodical literature. The second supplement, from January 1, 1887, to January 1, 1892, by William I. Fletcher, with the coöperation of the American Library Association. xiii, 476 p. Q. Boston: Houghton, Mifflin & Co., 1895.

Lettered on the back: Vol. III.

Poole's index.**Lo16.05 P784**

- ⁹⁰²² Poole's index to periodical literature. Third supplement. From January 1, 1892, to December 31, 1896. By William I. Fletcher and Franklin O. Poole. With the coöperation of the American Library Association. xix, 637 p. 1 por. Q. Boston: Houghton, Mifflin & Co., 1897.

Review of reviews.**Lo16.05 R32**

- ³⁴³¹ Index to the periodicals ... Continued from 1890. sq.Q. London [1891-].

The issue for 1890 published under the title: The Annual index of periodicals and photographs; 1891-1893: Index to the periodical literature of the world.

Ayer & Son, N. W., publishers.**Lo16.051 A976**

- ⁷⁰⁵⁸ N. W. Ayer & Son's American newspaper annual. Containing a catalogue of American newspapers, ... A list of the newspapers of the United States and Canada which insert advertisements, ... Separate lists of religious and agricultural publications, ... Continued from 1897. Q. Philadelphia 1897-.

Bibliographie.**Lo16.053 B47**

- ¹²³⁷² Bibliographie der deutschen Zeitschriften-Litteratur. Alphabetisches nach Schlagworten sachlich geordnetes Verzeichnis von ... Aufsätzen, die ... in ... Zeitschriften deutscher Zunge erscheinen sind, ... Continued from vol. 1. 1896. sq.Q. Leipzig 1897-.

Edited by F. Dietrich.

Répertoire.**Lo16.054 R29**

- ¹⁴⁷⁴⁴ Répertoire bibliographique des principales revues françaises ... Continued from [no. 1]. 1897. Q. Paris 1898-.

Edited by D. Jordell.

Smithsonian Institution.**016.061 S664**

³²⁶⁹ Publications of the Smithsonian Institution. May, 1896. I. Classified list. II. Numerical list. III. Tables. IV. Index. By William J. Rhees. iv,86 p. O. City of Washington 1896.

Smithsonian Institution.**016.061 S6641**

³⁰¹⁶ Catalogue of publications of the Smithsonian Institution, (1846-1882,) with an alphabetical index of articles in the Smithsonian contributions to knowledge, miscellaneous collections, annual reports, bulletins and proceedings of the U. S. National Museum, and report of the Bureau of Ethnology. By William J. Rhees. xiv,328 p. O. Washington 1882.

016.1-016.9 BIBLIOGRAPHIES OF SPECIAL SUBJECTS**Bowker, Richard Rogers, & Iles, George, *editors*.****016.3 B67**

²⁴² The reader's guide in economic, social and political science; being a classified bibliography, ... with ... courses of reading, college courses, etc. [2],169 p. D. (Economic tracts, no. 27.) New York: G. P. Putnam's Sons, 1891.

La Fontaine, H., & Otlet, P.**016.3 L11**

⁵⁹⁵⁹ ... Bibliographia sociologica. Sociologie et droit. Sozialwissenschaft und Recht. Sociology and law. Sommaire méthodique des traités et des revues, dressé conformément à la classification décimale. xiii,[34],170 p. O. Bruxelles: Office internationale de bibliographie, [189-].

Mühlbrecht, Otto.**016.3 M89**

¹³³⁷ Wegweiser durch die neuere Litteratur der Rechts- und Staatswissenschaften. ... Zweite umgearbeitete und vermehrte Auflage. [2],xxviii,748 p. O. Berlin: Puttkammer & Mühlbrecht, 1893.

Stammhammer, Josef.**Lo16.3 S783**

⁷³⁰⁹ Bibliographie der Social-Politik. iv,648 p. Q. Jena: G. Fischer, 1896.

Marot, Helen.**016.33 M34**

¹⁴⁵²⁶ A handbook of labor literature. Being a classified and annotated list of the more important books and pamphlets in the English language. vi,96 p. D. Philadelphia: Free Library of Economics & Political Science, 1899.

Rand, Benjamin, *Ph. D.***016.33 R15**

¹²⁷ A bibliography of economics. [2],88 p. O. Cambridge: J. Wilson & Son, 1895.

Stammhammer, Josef.

Lo16.335 S783

¹³⁰⁶ Bibliographie des Socialismus und Communismus. iv,303 p. Q.
Jena: G. Fischer, 1893.

Gross, Charles.

016.352 G91

¹⁴⁰⁹⁷ A bibliography of British municipal history including guilds and parliamentary representation. xxxiv,461 p. O. [HARVARD UNIVERSITY. Harvard historical studies, vol. 5.] New York: Longmans, Green, & Co., 1897.

Hasse, Adelaide Rosalia.

016.353 H271

¹⁸⁵⁹⁸ Reports of explorations printed in the documents of the United States government. (A contribution toward a bibliography.) 90 p. O. (U. S. A. GOVERNMENT PRINTING OFFICE. SUPERINTENDENT OF DOCUMENTS.) Washington 1899.

Hickcox, John Howard.

016.353 H52

¹⁵⁸⁸⁴ United States government publications. A monthly catalogue. Vol. 1-10. 1885-1894. O. Washington, D. C., 1885-1894.
No more published.

Poore, Benjamin Perley.

Lo16.353 P79

¹²⁵⁸⁷ A descriptive catalogue of the government publications of the United States, September 5, 1774-March 4, 1881. Compiled by order of Congress. iv,1392 p. sq.Q. Washington 1885.

U. S. A. Government Printing Office.

016.353 U58

³⁰²² *Superintendent of Documents.*

Checklist of public documents, containing debates and proceedings of Congress, from the first to the fifty-third Congress, together with miscellaneous lists of documents, and historical and bibliographical notes. Second edition, revised and enlarged. Issued by F. A. Crandall. 222 p. O. Washington 1895.

U. S. A. Government Printing Office.

Lo16.353 U581

¹⁹⁷³ *Superintendent of Documents.*

Catalogue of the public documents of . . . Congress and of all departments of the Government of the United States . . . (Being the "Comprehensive Index" provided for by the act approved January 12, 1895.) Prepared under the supervision of the Superintendent of Documents, Government Printing Office. Continued from the Fifty-third Congress, March 4, 1893. Q. Washington 1896.

U. S. A. Department of the Interior.

Lo16.353 U582

¹¹⁴⁹ *Superintendent of Documents.*

Comprehensive index of the publications of the Government, 1889-1893. By John G. Ames. vi,[2],480 p. sq.Q. Washington 1894.

- U. S. A. Government Printing Office.** 016.353 U583
5529 *Superintendent of Documents.*
 Index to the subjects of the documents and reports and to the committees, senators, and representatives presenting them. (Being the "consolidated index" provided for by the act of January 12, 1895.) Compiled under the direction of the Superintendent of Documents. Continued from [no. 1]. 54th Congress, 1st session, Dec. 2, 1895. O. Washington 1897.
- U. S. A. Government Printing Office.** 016.353 U584
12013 *Superintendent of Documents.*
 Catalogue of United States public documents. Issued monthly by the Superintendent of Documents, Government Printing Office. Continued from [no. 1]. January, 1895. O. Washington 1895-.
 No. 1-3 published under the title: Catalogue of publications issued by the Government of the United States
- U. S. A. Department of the Interior. Bureau of Education.** 016.353 U587
6793 Publications of the U. S. Bureau of Education, from 1867 to 1890, with subject-index. . . . [2], 1453-1551 p. O. Washington 1891.
 Reprint of chapter 30 of the *Report of the Commissioner of Education for 1888-89.*
- Warman, Philip Creveling.** 016.353 W23
19033 Bibliography and index of the publications of the United States geological survey, with the laws governing their printing and distribution. 495 p. O. [U. S. A. DEPARTMENT OF THE INTERIOR. GEOLOGICAL SURVEY.] Washington 1893.
- Hall, Granville Stanley, & Mansfield, John M.** 016.37 H14
3235 Hints toward a select and descriptive bibliography of education. Arranged by topics, and indexed by authors. xv, 309 p. D. [Heath's pedagogical library.] Boston: D. C. Heath & Co., 1893.
- Monroe, Will Seymour.** 016.37 M75
8516 Bibliography of education. xxiv, 202 p. D. (International education series, vol. 42.) New York: D. Appleton & Co., 1897.
- American Manual Training Association.** 016.371 A512
16379 A bibliography of manual training. Prepared by the American Manual Training Association. 24 p. O. New York 1898.

- Revue.** 016.51 R32
⁶⁴²⁴ Revue semestrielle des publications mathématiques, rédigée sous les auspices de la Société Mathématique d'Amsterdam. . . . Continued from vol. 1. [1892.] O. Amsterdam 1893-.
 Contains a check-list of periodicals indexed, in which those taken by Dutch libraries are indicated.
- Tuckerman, Alfred.** 016.536 T79
³⁰⁵⁹ Index to the literature of thermodynamics. v,239 p. O. (SMITHSONIAN INSTITUTION. Smithsonian miscellaneous collections, vol. 34.) Washington 1890.
- Osterberg, Max.** 016.537 085
¹⁰⁹⁵² Synopsis of current electrical literature. Compiled from . . . technical journals and magazines during 1895. . . . xiii,[2],143 p. Q. New York: D. Van Nostrand Co., 1896.
- Ronalds, Sir Francis.** 016.537 R66
²⁰⁵¹ Catalogue of books and papers relating to electricity, magnetism, the electric telegraph, &c., including the Ronalds library. With a biographical memoir. Edited by Alfred J. Frost. (Published by the Society of Telegraph Engineers.) xxvii,564 p. O. London: E. & F. N. Spon, 1880.
- Bolton, Henry Carrington.** 016.54 B63
¹⁹⁷⁵ A select bibliography of chemistry. 1492-1892. xiii,1212 p. O. (SMITHSONIAN INSTITUTION. Smithsonian miscellaneous collections, 850.) City of Washington 1893.
- Geological record.** 016.55 G29
¹⁷⁹⁴⁶ The Geological record A list of publications on geology, mineralogy, and palæontology Vol. 1-[8]. 1874-1884. O. London 1875-1889.
 Vol. 1-4 edited by William Whitaker, and 5-6, by W. Whitaker and W. H. Dalton, were published annually with sub-title: An account of works on geology, mineralogy, and palæontology, [Vol. 7-8], edited by William Topley and Charles Davies Sherborn, cover, in one arrangement, the five-year period from 1880-1884.
 Vol. 2-6 contain a cumulative supplement to the previous volumes.
 No more published.
- Ripley, William Zebina.** 016.572 R48
¹⁸⁷⁵⁷ A selected bibliography of the anthropology and ethnology of Europe. x,160 p. O. Boston: published by the Trustees of the Public Library, 1899.
 Including the works on these subjects in the Boston Public Library.
 Also published as [vol. 2] of *The races of Europe*, by the same author, which has shelf number **572.94 P900**

Bibliographia zoologica.**016.59 B47**

- ¹⁴⁷²⁶ *Bibliographia zoologica* (diario "Zoologischer Anzeiger" adnexa) adjuvante concilio bibliographico quod Turici praeside H. H. Field institutum est. . . . Continued from vol. 1. [1896.] O. Lipsiae 1896-.

Published as supplement to *Zoologischer Anzeiger*, vol. 19-, and continuing the "Litteratur" in previous vol. of this, which has shelf number **590.53 8**.

Edited by J. Victor Carus.

Carus, Julius Victor, & Engelmann, Wilhelm.**016.59 C25**

- ²²¹⁴ *Bibliotheca zoologica*. Verzeichniss der Schriften über Zoologie, welche in den periodischen Werken enthalten und vom Jahre 1846-1860 selbständig erschienen sind. Mit Einschluss der allgemein-naturgeschichtlichen, periodischen and palacontologischen Schriften. 2 vol. O. Leipzig: W. Engelmann, 1861.

Taschenberg, Otto.**016.59 T18**

- ¹³⁴⁹ *Bibliotheca zoologica* II. Verzeichniss der Schriften über Zoologie, welche in den periodischen Werken enthalten und vom Jahre 1861-1880 selbständig erschienen sind. Mit Einschluss der allgemein-naturgeschichtlichen, periodischen und paläontologischen Schriften. Vol. 1-. O. Leipzig: W. Engelmann, 1887-.

Hagen, Hermann August.**016.5957 H12**

- ²¹²⁹ *Bibliotheca entomologica*. Die Litteratur über das ganze Gebiet der Entomologie bis zum Jahre 1862. 2 vol. O. Leipzig: W. Engelmann, 1862-1863.

Association of Engineering Societies.**016.6 A849**

- ¹¹⁵⁵⁵ The engineering index. . . . Vol. 1-2. O. Vol. 1, Chicago: Association of Engineering Societies; vol. 2, New York: Engineering Magazine, c. 1892-1896.

Contents: Vol. 1. 1884-1891. Vol. 2. 1892-1896.

Edited by J. B. Johnson.

Vol. 1 published under the title: Descriptive index of current engineering literature. Originally published in the Journal of the Association.

Galloupe, Francis Ellis.**016.6 G13**

- ⁵¹²³ An index to engineering periodicals, 1883 to [1892], inclusive. Comprising engineering; railroads; science; manufactures and trade. 2 vol. O. Boston 1888-1893.

Vol. 2 published under the title: Galloupe's general index to engineering periodicals.

Haferkorn, Henry Ernest.**016.6 H11**

- ²²²⁵ Handy lists of technical literature. Reference catalogue of books printed in English from 1880 to 1888, inclusive; to which is added a select list of books printed before 1880 and still kept on publishers' and jobbers' lists. Parts 1-6 in 1 vol. O. Milwaukee, Wis.: parts 1-2: National Publishing and Printing Co.; parts 3-6: H. E. Haferkorn, 1889-1891.

Parts 1 and 2 compiled by Henry E. Haferkorn and Paul Heise.

Repertorium.**Lo16.6 R29**

- ³⁴¹⁹ Repertorium der technischen Literatur die Jahre 1823 bis einschl. 1853 umfassend. . . . Bearbeitet von Dr. Schubarth. Herausgegeben im Auftrage des Königlichen Ministeriums für Handel, Gewerbe und öffentliche Arbeiten. xvi, 1049 p. O. Berlin: Deckersche Hofbuchdruckerei, 1856.

Repertorium.**Lo16.6 R291**

- ³⁴²¹ Repertorium der technischen Journal-Literatur. Herausgegeben im Kaiserlichen Patentamt. Continued from 1854. Q. Berlin 1881-.

Continuation of Repertorium der technischen Literatur, 1823-1853.

From 1854 to 1881 edited by Bruno Kerl; from 1882-1885 by Rud. Biedermann; from 1886-1894 by Dr. Rieth.

Contents: 1854-1868 in 2 vol.: vol. 1, A-K; vol. 2, L-Z; 1869-1873 in 2 vol.: vol. 1, A-K; vol. 2, L-Z; 1874- published annually.

From 1854 to 1878 published under the title: Repertorium der technischen Literatur. Neue Folge. Im Auftrage des Königlich preussischen Ministeriums für Handel, Gewerbe, und öffentliche Arbeiten . . . ; from 1879 to 1894: Repertorium der technischen Journal-Literatur. Im Auftrage des Kaiserlichen Patentamtes herausgegeben.

Munroe, Charles Edward.**o16.662 M92**

- ²²⁸³ Index to the literature of explosives. 2 parts in 1 vol. O. Baltimore 1886-1893.

Sturgis, Russell, & Krehbiel, Henry Edward.**Lo16.7 S935**

- ⁶⁰³⁹ Annotated bibliography of fine art. Painting, sculpture, architecture, arts of decoration and illustration, by Russell Sturgis. Music, by Henry Edward Krehbiel. Edited by George Iles. [6], 89 p. Q. Boston: published for the American Library Association Publishing Section by the Library Bureau, 1897.

Adams, Charles Kendall.**o16.9 A211**

- ²⁰⁴ A manual of historical literature, comprising brief descriptions of the most important histories in English, French, and German, together with practical suggestions as to methods and courses of historical study. . . . Third edition, revised . . . xxxviii, [2], 720 p. O. New York: Harper & Brothers, 1889.

o17 CATALOGUES OF LIBRARIES**American Library Association.****o17 A5121**

- ¹²²¹ Catalog of "A. L. A." library. 5,000 volumes for a popular library selected by the American Library Association, and shown at the World's Columbian Exposition. xx, 592 p. O. (U. S. A. DEPARTMENT OF THE INTERIOR. BUREAU OF EDUCATION.) Washington 1893.

Boston. *Public Library.***Lo17 B658**

⁷³⁸² A list of periodicals, newspapers, transactions, and other serial publications currently received in the principal libraries of Boston and vicinity. [4], 143 p. Q. Boston 1897.

British Museum. *Department of Printed Books.***Lo17 B762**

⁹⁸⁶⁸ A subject index of the modern works added to the library of the British Museum Compiled by G. K. Fortescue. [Vol. 1-3.] 1880-1895. Q. London 1886-1897.

Contents: Vol. 1. 1880-1885; vol. 2. 1886-1890; vol. 3. 1891-1895.

Chicago. *Public Library.***017 C43**

⁹⁵⁰³ Finding lists of the Chicago Public Library. Seventh edition. Including the first supplement. [2 vol.] O. Chicago 1889-1895.

Prussia. *K. Ministerium der öffentlichen Arbeiten.***017 P955**

⁸⁴¹² Katalog der Bibliothek des Königl. Ministeriums der öffentlichen Arbeiten. xiv, [2], 666 p. O. Berlin: J. Springer, 1897.

020 LIBRARY ECONOMY**Denver, Col. *Public Library.*****020.2 D19**

⁸⁶⁴ Public library hand-book, Denver. By the Public Library of Denver. [2], 182 p. il. S. Denver: Carson-Harper Co., 1895.
Edited by J. C. Dana.

Dana, John Cotton.**020.2 D191**

¹⁸⁸⁷³ A library primer. 180, [10] p. il. D. Chicago: Library Bureau, 1899.

Fletcher, William Isaac.**020.2 F63**

¹³³ Public libraries in America. Second edition. [2], 169 p. 14 pl. 4 por. D. (Columbian knowledge series, no. 2.) Boston: Roberts Brothers, 1895.

Gräsel, Arnim.**020.2 G761**

¹⁰³³¹ Manuel de bibliothéconomie. Edition française revue par l'auteur et considérablement augmentée. Traduction de Jules Laude. . . . [2], 628 p. il. 4 pl. O. Paris: H. Welter, 1897.

Plummer, Mary Wright.**020.2 P731**

¹⁵¹³² Hints to small libraries. Second edition revised and enlarged. 67, [1] p. 25 il. O. New York: Truslove & Comba, 1898.

Garnett, Richard.**020.4 G18**

¹⁹⁶⁷⁸ Essays in librarianship and bibliography. xiv,343 p. D. [Library series, vol. 5.] London: G. Allen, 1899.

Contents: Address to the Library Association. Public libraries and their catalogues. The printing of the British Museum catalogue. The past, present, and future of the British Museum catalogue. The British Museum catalogue as the basis of a universal catalogue. Introduction of European printing into the east. Paraguayan and Argentine bibliography. The early Italian book trade. Some book-hunters of the seventeenth century. Librarianship in the seventeenth century. The manufacture of fine paper in England in the eighteenth century. On some colophons of the early printers. On the system of classifying books on the shelves followed at the British Museum. Subject-indexes to transactions of learned societies. Photography in public libraries. The telegraph in the library. On the protection of libraries from fire. The sliding-press at the British Museum. On the provision of additional space in libraries. Preface to Blades' "Enemies of books". Sir Anthony Panizzi, K.C.B. The late John Winter Jones, V. P. S. A. The late Henry Stevens, F. S. A. The late Sir Edward A. Bond, K. C. B.

Wheatley, Henry Benjamin.**020.4 W56**

⁶⁵³⁹ How to form a library. vii,248 p. D. [Book-lover's library.] London: E. Stock, 1886.

Macfarlane, John.**025 M16**

¹⁵⁵²⁵ Library administration. x,244 p. D. [Library series, vol. 3.] London: G. Allen, 1898.

Dewey, Melvil.**025.4 D51**

⁹³⁴ Decimal classification and relative index for libraries, clippings, notes, etc. Fifth edition. 593 p. O. Boston: Library Bureau, 1894.

Greenwood, Thomas.**027.042 2**

¹⁷³³ Public libraries: a history of the movement and a manual for the organization and management of rate-supported libraries. Fourth edition, revised xxxi,604 p. il. D. London: Cassell & Co., 1894.

Koopman, Harry Lyman.**028 K83**

⁵⁷²⁴ The mastery of books. Hints on reading and the use of libraries. 214 p. D. New York: American Book Co., c. 1896.

Contains a chapter: Classified list of books.

Porter, Noah.**028 P83**

¹²⁸²⁴ Books and reading: or, What books shall I read and how shall I read them? viii,378 p. O. New York: C. Scribner & Co., 1871.

Thayer, Joseph Henry.**028.3 T33**

³³⁶ Books and their use: an address; to which is appended a list of books for students of the New Testament. 94 p. O. Boston: Houghton, Mifflin, & Co., 1893.

030 ENCYCLOPEDIAS

031 AMERICAN

New York Tribune.

031 3

¹⁷⁷⁴ Tribune almanac and political register . . . Continued from [no. 1]. 1838. D. New York [1854-].

The almanacs for 1838, 1843-1855 are published under the title: The Whig almanac . . . ; for 1839-41: The Politician's register; for 1838-1854 they are photolithographic reproductions with a general title-page reading: The Tribune almanac . . . 1838-1868, . . . comprehending The Politician's register and The Whig almanac . . . Vol. 1.

None published for 1842.

No title-page. Title taken from inside cover.

Wheeler, William Adolphus, & Wheeler, Charles G.

031 0200

⁶⁴⁷² Familiar allusions: a hand-book of miscellaneous information, including the names of celebrated statues, paintings, palaces, country-seats, ruins, churches, ships, streets, clubs, natural curiosities, and the like. v.584 p. O. Boston: J. R. Osgood & Co., 1882.

American cylopædia.

L031 0300

⁴¹⁶ The American cyclopædia. A popular dictionary of general knowledge. Edited by George Ripley and Charles A. Dana. With supplement. 16 vol. il. pl. maps, facsim. table. Index by T. J. Conant. Q. New York: D. Appleton & Co., 1883-1885.

Appletons' annual cyclopædia.

L031 0301

⁷³³ Appletons' annual cyclopædia and register of important events of the years 1876-. . . . New series. Continued from vol. 1. il. pl. por. maps, tables. Q. New York: D. Appleton & Co., 1885-.

Index for vol. 1-9 in vol. 9; for vol. 13-17 in vol. 17. Vol. 1-9 printed in 1885-1886, c. 1877-1885.

Encyclopædia Britannica.

L031 0302

²⁴⁹⁴ American supplement to Encyclopædia Britannica. (Ninth edition.) A dictionary of arts, sciences, and general literature. 4 vol. il. pl. maps. Q. Philadelphia: Hubbard Publishing Co., 1894.

Binder's title: Encyclopædia Americana.

Iconographic encyclopædia.

L031 0500

⁶⁷² The Iconographic encyclopædia of the arts and sciences. Translated from the German of the Bilder-Atlas (Iconographische Encyclopædie), revised and enlarged by eminent American specialists. Published by special arrangement with the proprietor, F. A. Brockhaus, Leipzig, Germany. 7 vol. pl. maps. Q. Philadelphia: Iconographic Publishing Co., c. 1885-1890.

Daily news almanac.**031 0502**

- ¹⁰⁵⁷⁰ The Daily news almanac and political register. . . . Continued from vol. 14. 1898. il. D. Chicago, c. 1898-.
Compiled by G. E. Plumble.

Frey, Albert Romer.**031 0800**

- ⁹⁹⁰ Sobriquets and nicknames. iii,482 p. O. London: Whittaker & Co., [1887].

Century dictionary.**L031 0900**

- ⁴¹⁸ The Century dictionary. An encyclopedic lexicon of the English language. Prepared under the superintendence of William Dwight Whitney. 6 vol. il. F. New York: Century Co., c. 1889.

Century cyclopedia of names.**L031 0901**

- ⁴⁶⁰ The Century cyclopedia of names. A pronouncing and etymological dictionary of names in geography, biography, mythology, history, ethnology, art, archæology, fiction, etc., etc., etc. Edited by Benjamin E. Smith. vii,1085 p. F. New York: Century Co., c. 1894.

Reddall, Henry Frederic.**031 0902**

- ⁸⁷⁵ Fact, fancy, and fable: a new handbook for ready reference on subjects commonly omitted from cyclopædias; . . . 536 p. O. Chicago: A. C. McClurg & Co., 1892.

Thorne, Robert, *compiler*.**031 0903**

- ¹⁴⁵⁸⁴ Fugitive facts. A dictionary of rare and curious information. A treasury of facts, legends, sayings and their explanation, obtained in large part from sources not generally accessible, . . . 506 p. D. New York: A. L. Burt, c. 1889.

Johnson's universal cyclopædia.**L031 P300**

- ⁴³² Johnson's universal cyclopædia. A new edition, prepared by a corps of thirty-six editors, assisted by eminent European and American specialists, under the direction of Charles Kendall Adams. 8 vol. il. pl. maps. Q. New York: A. J. Johnson Co., 1895.

Smith, Henry Percy, *editor*.**031 P500**

- ¹⁷⁷³ A dictionary of terms, phrases, and quotations. The terms and phrases edited by the Rev. H. Percy Smith. The quotations compiled for the American edition by Helen Kendrick Johnson. x, 724 p. O. New York: D. Appleton & Co., 1895.

Harper's book of facts.**L031 P501**

³⁶³⁰ Harper's book of facts: a classified history of the world, embracing science, literature, and art. Compiled by Joseph H. Willsey, edited by Charlton T. Lewis. [4], 954 p. il. Q. New York: Harper & Brothers, 1895.

World almanac.**031 P600**

¹²²³ The World almanac and encyclopedia. 1896. 584 p. il. O. New York: Press Publishing Co., 1896.

Encyclopædia Britannica.**L031 P700**

⁷⁹⁰⁰ New American supplement to the latest edition of the Encyclopædia Britannica. A standard work of reference in art, literature, science, history, Edited under the personal supervision of Day Otis Kellogg. . . . 5 vol. paged continuously; vol. 1: 1-642 p.; vol. 2: [6], 643-1308 p.; vol. 3: [6], 1309-1974 p.; vol. 4: [8], 1975-2632 p.; vol. 5: [6], 2633-3269 p. il. Q. New York: Werner Co., 1897.

Chandler, William Henry.**L031 P801**

¹⁷³⁴⁶ Chandler's encyclopedia. An epitome of universal knowledge. . . . 3 vol. paged continuously; vol. 1: xiii, 1-520 p.; vol. 2: 521-1104 p.; vol. 3: [2], 1105-1710 p. il. maps. Q. New York: P. F. Collier, 1898.

032 ENGLISH**Statesman's year-book.****032 M400**

⁸⁰⁶⁹ The Statesman's year-book: statistical and historical annual of the states of the world Continued from [vol. 1]. 1864. D. London 1864-.

Vol. 1-19 edited by Frederick Martin; vol. 20-, by J. Scott Keltie.
Published with various subtitles.

Whitaker, Joseph, *editor*.**032 M900**

²⁵²² An almanac Containing the usual astronomical and other phenomena. Also a large amount of information respecting the government, finances, population, commerce, and general statistics of the British Empire throughout the world, with some notice of other countries, &c., &c. Continued from [no. 1:] 1869. D. London: J. Whitaker, pref. 1868-.

Encyclopædia Britannica.**L032 N500**

²⁰⁹⁹ The Encyclopædia Britannica. A dictionary of arts, sciences, and general literature. Ninth edition. 24 vol. and index. il. pl. maps. sq. Q. Edinburgh: A. & C. Black, 1875-1888.

Adams, William Davenport.

032 N800

- ⁵⁵¹⁷ Dictionary of English literature: being a comprehensive guide to English authors and their works. Third edition. iv, 708 p. O. London: Cassell, Petter & Galpin, [188-].

Brewer, Ebenezer Cobham.

032 0001

- ¹⁵⁹ The reader's handbook of allusions, references, plots, and stories. With two appendices. xiii, 1170 p. O. Philadelphia: J. B. Lippincott Co., 1893.

Cox, Sir George William, Bart.

032 0200

- ¹⁰¹⁵ The little cyclopædia of common things. Tenth edition. [2], 660 p. il. O. London: Swan Sonnenschein & Co., 1894.

Brewer, Ebenezer Cobham.

032 0400

- ⁸⁶⁷ A dictionary of miracles, imitative, realistic, and dogmatic. xlv, 582 p. il. O. Philadelphia: J. B. Lippincott Co., 1889.

Hazell's annual.

032 0600

- ³⁸⁵⁷ Hazell's annual A cyclopædic record of men and topics of the day. . . . Continued from [vol. 1]. 1886. maps. D. London 1886-.

Vol. 1-6, 1886-1891, edited by E. D. Price; vol. 10-, by Wm. Palmer.

Vol. 1-3 published under the title: Hazell's annual cyclopædia.

Chambers' encyclopædia.

L032 0800

- ⁴³⁴ Chambers' encyclopædia. A dictionary of universal knowledge. New edition. 10 vol. il. pl. maps. Q. London: W. & R. Chambers, 1888-1892.

Blackie's modern cyclopedia.

032 0900

- ¹³⁰² Blackie's modern cyclopedia of universal information. . . . Edited by Charles Annandale. 8 vol. il. maps. O. London: Blackie & Son, 1894.

Brewer, Ebenezer Cobham.

032 P100

- ¹⁶⁰ The historic note-book: with an appendix of battles. x, 997 p. O. Philadelphia: J. B. Lippincott Co., 1894.

Brewer, Ebenezer Cobham.

032 P200

- ¹⁵⁸ Dictionary of phrase and fable. Giving the derivation, source, or origin of common phrases, allusions, and words that have a tale to tell. Twenty-sixth edition, revised. . . . To which is added a concise bibliography of English literature, based upon the . . . work . . . of W. Davenport Adams. . . . viii, 1076 p. O. New York: Cassell Publishing Co., [1892].

Walsh, William Shepard.

032 P300

¹¹⁶³ Handy-book of literary curiosities. 1104 p. O. London: Gibbings & Co., 1894.

Haydn, [Joseph], of Lincoln's Inn.

032 P500

¹⁴⁵ Haydn's dictionary of dates and universal information relating to all ages and nations. Twenty-first edition, containing the history of the world to the autumn of 1895. By Benjamin Vincent. vi, [6], 1216 p. O. New York: G. P. Putnam's Sons, 1895.

Baldwin, James.

032 P501

¹²⁰⁸ A guide to systematic readings in the Encyclopædia Britannica. 316 p. O. Chicago: Werner Co., 1895.

033-039 OTHER ENCYCLOPEDIAS

Brockhaus' Konversations-Lexikon.

L033 P200

⁶³⁹ Brockhaus' Konversations-Lexikon. Vierzehnte vollständig neu-bearbeitete Auflage. 17 vol. il. pl. maps, tables. Q. Leipzig: F. A. Brockhaus, 1892-1898.

Vol. 17 is Supplement and also called Revidierte Jubiläums-Ausgabe.

Meyers Hand-Lexikon.

033 P300

¹³⁵⁹ Meyers Hand-Lexikon des allgemeinen Wissens. Fünfte, gänzlich umgearbeitete Auflage. [2], 1702, [2] p. D. Leipzig: Bibliographisches Institut, 1893.

Larousse, Pierre.

L034 M500

¹¹⁹⁷ Grand dictionnaire universel du xix^e siècle français, historique, géographique, biographique, mythologique, bibliographique, littéraire, artistique, scientifique, etc. . . . 17 vol. il. 1 por. sq.F. Paris [1864-1876].

Vol. 1-2, 4-6, 8-14, published under the title: Grand dictionnaire universel français, . . .

Vol. 16 and 17 are supplements to the main work.

Grande encyclopédie.

L034 O500

¹¹⁸⁸ La Grande encyclopédie. Inventaire raisonné des sciences, des lettres et des arts, par une société de savants et de gens des lettres . . . Continued from vol. 1. il. maps. F. Paris: vol. 1-22, H. Lamirault & c^{ie}, vol. 23-, Société anonyme de La Grande encyclopédie, [1885-].

Vol. 1-18, general editor: F. Camille Dreyfus; vol. 23-, André Berthelot.

Nordisk familjebok.**Lo38 N600**

¹⁷⁸⁴⁶ Nordisk familjebok. Konversationslexikon och realencyklopedi, innehållande upplysningar och förklaringar om märkvärdiga namn, föremål och begrepp. . . . Vol. 1-. il. Q. Stockholm 1876-.

A-Elzheimer, edited by N. Linder; Em-Hemman, by B. F. Olsson, J. Rosén and Th. Westrin; Hemmanskyfning-Öynhausen, by J. Rosén and Th. Westrin, with the exception of the letter S which was edited by B. Meijer; vol. 19-, by Th. Westrin.

Vol. 19- are supplements.

040 GENERAL ESSAYS**Caird, John.****042 C12**

¹⁸¹⁰⁸ University addresses: being addresses on subjects of academic study delivered to the University of Glasgow. [Edited by Edward Caird.] x,383 p. O. Glasgow: J. MacLehose & Son, 1898.

Contents: The unity of the sciences. The progressiveness of the sciences. Erasmus. Galileo. The scientific character of Bacon. David Hume. Bishop Butler and his theology. The study of history. The science of history. The study of art. The progressiveness of art. The art of public speaking. The personal element in teaching. General and professional education.

050 JOURNALISM**Dana, Charles Anderson.****050.4 D19**

¹²³⁸⁸ The art of newspaper making. Three lectures. [4], 114 p. D. New York: D. Appleton & Co., 1897.

Hudson, Frederic.**050.9 N200**

⁵ Journalism in the United States, from 1690 to 1872. [4], 789 p. O. New York: Harper & Brothers, 1873.

Jackson, Mason.**050.9 O500**

¹⁰³² The pictorial press, its origin and progress. xii, 363 p. 150 il. O. London: Hurst & Blackett, 1885.

Bourne, Henry Richard Fox.**050.9 O700**

⁵³⁷⁸ English newspapers. Chapters in the history of journalism. 2 vol. O. London: Chatto & Windus, 1887.

Pendleton, John.**050.9 P001**

⁶⁴⁸⁸ Newspaper reporting in olden time and to-day. x, 245 p. D. [Book-lover's library.] London: E. Stock, 1890.

060 SCIENTIFIC SOCIETIES

Becker, Bernard Henry.

062 4

¹²⁴¹⁵ Scientific London. viii,340 p. D. New York: D. Appleton & Co., 1875.

090 BOOK RARITIES

Slater, John Herbert.

090.2 P200

⁶²⁵⁶ Book collecting. A guide for amateurs. [2],130 p. il. D. London: Swan Sonnenschein & Co., 1892.

Madan, Falconer.

091 P300

²⁸⁵³ Books in manuscript: a short introduction to their study and use. With a chapter on records. xv,188 p. il. 8 pl. 1 facsim. O. [Books about books.] London: Kegan Paul, ... & Co., 1893.
With an appendix: List of printed catalogues of manuscripts in European language: in the British Museum, the Bodleian Library at Oxford, the Cambridge University Library, etc.

Pollard, Alfred William.

096 P300

¹³⁵ Early illustrated books. A history of the decoration and illustration of books in the 15th and 16th centuries. xvi,256 p. 58 il. 1 facsim. O. [Books about books.] London: Kegan Paul, Trench, Trübner & Co., 1893.

Hardy, William J.

097 P300

²³⁴⁰ Book-plates. xvi,175 p. il. 34 pl. 3 por. O. [Books about books.] London: Kegan Paul, ... & Co., 1893.

Castle, Egerton.

097 P301

²³³⁴ English book-plates, ancient and modern. [New and enlarged edition.] xx,352 p. il. 13 pl. 1 por. D. [Ex-libris series.] London: G. Bell & Sons, 1894.

Vinycomb, John.

097 P400

⁶²³³ On the processes for the production of ex libris (book-plates). xii,96 p. il. 22 pl. D. London: A. & C. Black, 1894.
Reprinted from the *Journal of the Ex Libris Society* with additional illustrations.

Allen, Charles Dexter.

097 P401

⁷³⁷⁹ American book-plates. A guide to their study, with examples. With a bibliography by Eben Newell Hewins. xiv,437 p. il. 31 pl. D. New York: Macmillan & Co., 1894.

Hamilton, Walter.

097 P600

⁵⁵⁷² French book-plates. x,360 p. il. 1 pl. D. [Ex-libris series.] London: G. Bell & Sons, 1896.
Contains a bibliography of works referring to French ex-libris.

100-200 PHILOSOPHY AND RELIGION

100-120 GENERAL WORKS AND METAPHYSICS

Ladd, George Trumbull.**102 P001**

¹⁵⁷⁵ Introduction to philosophy. An inquiry after a rational system of scientific principles in their relation to ultimate reality. xii, 426 p. O. New York: C. Scribner's Sons, 1890.

Külpe, Oswald.**102 P500**

⁸⁵⁵⁵ Introduction to philosophy. A handbook for students of psychology, logic, ethics, æsthetics, and general philosophy. Translated from the German (1895) by W. B. Pillsbury and E. B. Titchener. x,256 p. D. London: Swan Sonnenschein & Co., 1897.

Hyde, William DeWitt.**104 H99**

¹³⁰⁹⁷ Practical idealism. xi,335 p. D. New York: Macmillan Co., 1897.

Contents: Part 1. The natural world. 1. The world of sense-perception. 2. The world of association. 3. The world of science. 4. The world of art. Part 2. The spiritual world. 5. The world of persons. 6. The world of institutions. 7. The world of morality. 8. The world of religion.

Schwegler, Albert.**109 K700**

³⁵⁴⁶ Handbook of the history of philosophy. Translated and annotated by James Hutchison Stirling. Seventh edition. . . . xviii, [2],486 p. D. Edinburgh: Edmonston & Co., 1879.

Ueberweg, Friedrich.**109 N100**

⁵⁷⁴⁵ History of philosophy, from Thales to the present time. Translated from the fourth German edition, by George S. Morris. With additions by Noah Porter. With a preface by the editors of the Philosophical and theological library. 2 vol. O. [Philosophical and theological library.] New York: C. Scribner's Sons, 1887, c. 1871-1873.

Vol. 2 contains an appendix on English and American philosophy, by Noah Porter, and an appendix on Italian philosophy, by Vincenzo Botta.

Windelband, Wilhelm.**109 P100**

⁷³⁷¹ A history of philosophy. With especial reference to the formation and development of its problems and conceptions. Authorised translation by James H. Tufts. xiii,659 p. O. New York: Macmillan & Co., 1893.

Burt, Benjamin Chapman.**109 P200**

¹²¹ A history of modern philosophy (from the Renaissance to the present). 2 vol. O. Chicago: McClurg & Co., 1892.

- Weber, Alfred.** 109 P600
⁴¹⁰⁶ History of philosophy. Authorized translation by Frank Thilly. From the fifth French edition. xi,630 p. O. New York: C. Scribner's Sons, 1896.
 Contains a bibliography of philosophy and numerous bibliographical notes and references.
- Pearson, Karl.** 110.2 P200
⁶⁴³⁷ The grammar of science. xvi,493 p. 25 il. D. [Contemporary science series.] London: W. Scott, 1892.
 With bibliographical references at the end of each chapter.
- Bradley, Francis Herbert.** 110.2 P300
³³⁹² Appearance and reality: a metaphysical essay. xxiv,558 p. O. [Library of philosophy.] London: Swan Sonnenschein & Co., 1893.
- Locke, John.** 121 E2
⁹⁶⁰⁶ An essay concerning human understanding. Collated and annotated, with prolegomena, biographical, critical, and historical, by Alexander Campbell Fraser. 2 vol. por. O. Oxford: Clarendon Press, 1894.

130 MIND AND BODY

- Mercier, Charles.** 132.1 O900
³³¹⁵ Sanity and insanity. xix,395 p. il. 1 pl. D. [Contemporary science series.] London: W. Scott, 1890.
- Kerr, Norman.** 132.7 P400
¹¹³³² Inebriety or narcomania, its etiology, pathology, treatment and jurisprudence. Third edition. xxxix,780 p. O. London: H. K. Lewis, 1894.
- Ellis, Havelock.** 132.9 P001
¹⁴⁰ The criminal. viii,337 p. il. 5 pl. D. [Contemporary science series.] London: W. Scott, 1890.
- Sully, James.** 133.2 O100
⁶¹⁶ Illusions: a psychological study. xii,372 p. 7 il. D. (International scientific series, vol. 33.) New York: D. Appleton & Co., 1882.
- Scholz, Friedrich, *M. D.*** 135 P300
³¹⁹ Sleep and dreams: a scientific-popular dissertation, from the German by H. M. Jewett; and The analogy of insanity to sleep and dreams, by Milo A. Jewett. 147 p. D. New York: Funk & Wagnalls Co., 1893.

Ribot, Théodule. 136.3 0200

⁶⁰⁵⁰ Heredity: a psychological study of its phenomena, laws, causes, and consequences. From the French. x,393 p. O. New York: D. Appleton & Co., 1895.

Mantegazza, Paolo. 138 0500

³²⁶³ Physiognomy and expression. x,327 p. il. D. [Contemporary science series.] New York: Scribner, & Welford, 1890.

140 PHILOSOPHICAL SYSTEMS

Sully, James. 149.6 N700

²⁸⁰³ Pessimism; a history and a criticism. xv,477 p. O. London: H. S. King & Co., 1877.

150 PSYCHOLOGY

Ladd, George Trumbull. 150.1 P501

¹⁰³⁷² Philosophy of mind. An essay in the metaphysics of psychology. xiv,414 p. O. New York: C. Scribner's Sons, 1895.

Carpenter, William Benjamin. 150.2 N600

⁹⁹⁶⁷ Principles of mental physiology, with their applications to the training and discipline of the mind, and the study of its morbid conditions. Seventh edition. lxiii,737 p. 17 il. O. London: Kegan Paul, ... & Co., 1896.

Lotze, Hermann. 150.2 O100

⁷⁹⁴² Outlines of psychology. Dictated portions of the lectures of Hermann Lotze. Translated and edited by George T. Ladd. ix,[2], 157 p. D. [LOTZE, H. Outlines of philosophy, vol. 4.] Boston, U. S. A.: Ginn & Co., c. 1886.

Perez, Bernard. 150.2 0201

¹⁵⁶⁵⁴ The first three years of childhood. Edited and translated by Alice M. Christie. With an introduction by James Sulley. xxiii,295 p. D. (School bulletin publications.) Syracuse, N. Y.: C. W. Bardeen, 1894.

Preyer, William. 150.2 0400

⁶¹³⁷ The mind of the child. ... 2 vol. il. D. Translated from the original German by H. W. Brown. (International education series, vol. 7 and 9.) New York: D. Appleton & Co., 1896.

Contents: Vol. 1. The senses and the will. Vol. 2. The development of the intellect.

Ladd, George Trumbull.

150.2 0701

¹⁵⁹⁶ Elements of physiological psychology. A treatise of the activities and nature of the mind, from the physical and experimental point of view. xii,696 p. 114 il. O. New York: C. Scribner's Sons, 1887.

Romanes, George John.

150.2 0801

⁹⁸⁷⁰ Mental evolution in man. Origin of human faculty. viii,[2], 452 p. il. 1 table. O. London: Kegan Paul, Trench & Co., 1888.

Sully, James.

150.2 0902

⁶⁴⁴⁹ Teacher's hand-book of psychology, on the basis of the "Outlines of psychology." Third edition, revised and enlarged. xiv, 445 p. D. New York: D. Appleton & Co., 1897. c. 1886.

James, William.

150.2 P001

¹²⁹ The principles of psychology. 2 vol. 94 il. O. (American science series, advanced course.) New York: H. Holt & Co., 1890.

Preyer, Wilhelm.

150.2 P002

⁶¹³³ Mental development in the child. Translated from the German by H. W. Brown. xxvi,170 p. D. (International education series, vol. 24.) New York: D. Appleton & Co., 1896.

Sully, James.

150.2 P201

⁶⁰⁵² The human mind. A text-book of psychology. 2 vol. O. New York: D. Appleton & Co., 1892.

Wundt, Wilhelm.

150.2 P203

^{~156} Lectures on human and animal psychology. Translated from the second German edition by J. E. Creighton & E. B. Titchener. [Second edition.] x,459 p. 45 il. O. London: Swan Sonnenschein & Co., 1896.

Külpe, Oswald.

150.2 P300

⁷¹¹⁶ Outlines of psychology. Based upon the results of experimental investigation. Translated from the German (1893) by Edward Bradford Titchener. xi,462 p. 10 il. O. London: Swan Sonnenschein & Co., 1895.

Wundt, Wilhelm.

150.2 P600

⁵⁰⁰⁰ Outlines of psychology. Translated with the coöperation of the author by Charles Hubbard Judd. xviii,342 p. O. Leipzig: W. Engelmann, 1897.

Titchener, Edward Bradford.

150.2 P601

^{55~6} An outline of psychology. xiv,352 p. 10 il. O. New York: Macmillan Co., 1896.

Compayré, Gabriel.**150.2 P603**

⁶¹⁶⁰ The intellectual and moral development of the child. Part I. Containing the chapters on perception, emotion, memory, imagination, and consciousness. Translated from the French by Mary E. Wilson. ix,[2],298 p. D. (International education series, vol. 35.) New York: D. Appleton & Co., 1896.

Stout, George Frederick.**150.2 P604**

⁶³¹⁴ Analytic psychology. 2 vol. O. London: Swan Sonnenschein & Co., 1896.

Baldwin, James Mark.**150.2 P702**

⁸⁹²¹ Social and ethical interpretations in mental development. A study in social psychology. Work crowned with the gold medal of the Royal Academy of Denmark. xiv,574 p. O. New York: Macmillan Co., 1897.

Harris, William Torrey.**150.2 P801**

¹²⁸⁵⁷ Psychologic foundations of education. An attempt to show the genesis of the higher faculties of the mind. xxxv,400 p. D. (International education series, vol. 37.) New York: D. Appleton & Co., 1898.

Oppenheim, Nathan.**150.2 P802**

¹⁴¹⁵⁷ The development of the child. viii,[2],296 p. D. New York: Macmillan Co., 1898.

Titchener, Edward Bradford.**150.2 P805**

¹⁷⁹⁸⁰ A primer of psychology. xvi,314 p. O. New York: Macmillan Co., 1898.

Galton, Francis.**150.4 G13**

⁹⁰⁰³ Inquiries into human faculty and its development. xii,[2],387 p. il. 5 pl. O. New York: Macmillan & Co., 1883.

Sully, James.**150.4 S953**

³⁰⁹² Sensation and intuition: studies in psychology and æsthetics. xix, 372 p. il. O. London: H. S. King & Co., 1874.

Contents: 1. The relation of the evolution hypothesis to human psychology. 2. New theories of emotional expression. 3. Recent German experiments with sensation. 4. Belief: its varieties and its conditions. 5. The genesis of the free-will doctrine. 6. On some elements of moral self-culture. 7. The basis of musical sensation. 8. Aspects of beauty in musical form. 9. On the nature and limits of musical expression. 10. The æsthetic aspects of character. 11. The representation of character in art. 12. Lessing's Hamburg dramaturgy. 13. On the possibility of a science of æsthetics.

Sully, James.**150.4 S953I**

⁶¹¹⁶⁵ Studies of childhood. viii,527 p. 52 il. O. New York: D. Appleton & Co., 1896.

Contains a bibliography of child study.

- Ribot, Theodule.** 150.9 0600
⁷⁴ German psychology of to-day: the empirical school. Translated from the second French edition by James Mark Baldwin. With a preface by James McCosh. xxi,307 p. O. New York: C. Scribner's Sons, 1886.
- Mach, Ernst.** 152 P700
⁶⁰¹⁹ Contributions to the analysis of the sensations. Translated by C. M. Williams. viii,[4],208 p. 37 il. O. Chicago: Open Court Publishing Co., 1897.
- Sanford, Edmund Clark.** 152 P800
¹⁶²²⁵ A course in experimental psychology. Part 1: Sensation and perception. [New edition.] viii,449 p. il. 1 pl. D. Boston, U. S. A.: D. C. Heath & Co., 1898.
 "Bibliography," at the end of each chapter.
- Ladd, George Trumbull.** 153 P700
⁷³⁹⁹ Philosophy of knowledge. An inquiry into the nature, limits, and validity of human cognitive faculty. xv,614 p. O. New York: C. Scribner's Sons, 1897.
- Kay, David.** 154 0800
⁶¹⁰⁴ Memory: what it is and how to improve it. xxvi,[2],340 p. D. (International education series, vol. 8.) New York: D. Appleton & Co., 1895, c. 1888.
- Gurney, Edmund.** L157 0001
¹⁰²⁵³ The power of sound. xi,[2],559 p. il. Q. London: Smith, Elder, & Co., 1880.
- Lotze, Hermann.** 157 0400
⁷⁹⁴³ Outlines of æsthetics. Dictated portions of the lectures of Hermann Lotze. Translated and edited by George T. Ladd. viii, [2],113 p. D. [LOTZE, H. Outlines of philosophy, vol. 5.] Boston, U. S. A.: Ginn & Co., c. 1885.
- Mosso, Angelo.** 157 0402
¹⁵⁸²⁴ Fear. Translated from the fifth edition of the Italian by E. Lough and F. Kiesow. Authorised translation. [6],278 p. 7 il. 2 pl. O. London: Longmans, Green, & Co., 1896.
- Bosanquet, Bernard.** 157 P200
⁸⁷⁶² A history of æsthetic. xxiii,502 p. O. [Library of philosophy.] London: Swan Sonnenschein & Co., 1892.
 "Bibliography", p. 494-498.
- Santayana, George.** 157 P600
⁵⁵⁹⁵ The sense of beauty: being the outlines of æsthetic theory. ix, 275 p. D. New York: C. Scribner's Sons, 1896.

Ribot, Théodule.

157 P602

⁸⁵¹¹ The psychology of the emotions. xix,455 p. D. [Contemporary science series.] London: W. Scott, 1897.

160 LOGIC

Hegel, [Georg Wilhelm Friedrich].

160.2 J001

¹⁷⁴³⁵ The logic of Hegel. Translated from the Encyclopaedia of the philosophical sciences by William Wallace. Second edition, revised and augmented. xxvi,439 p. D. Oxford: Clarendon Press, 1892.

Mill, John Stuart.

160.2 K300

²⁸⁴⁶ A system of logic, ratiocinative and inductive: being a connected view of the principles of evidence and the methods of scientific investigation. Eighth edition. 659 p. O. New York: Harper & Brothers, 1874.

Jevons, William Stanley.

160.2 N301

²⁸⁵⁴ The principles of science: a treatise on logic and scientific method. Second edition, revised. xlv,786 p. 1 il. D. London: Macmillan & Co., 1877.

Lotze, Hermann.

160.2 0001

¹⁰⁵⁹⁵ Logic. In three books: of thought, of investigation, and of knowledge. English translation edited by Bernard Bosanquet. [Lotze's System of philosophy, part 1.] xxiii,[1],538 p. O. (Clarendon Press series.) Oxford: Clarendon Press, 1884.

Bosanquet, Bernard.

160.2 0800

³³⁹⁵ Logic; or, The morphology of knowledge. 2 vol. O. Oxford: Clarendon Press, 1888.

Wallace, William.

160.2 P400

¹⁷⁴³⁶ Prolegomena to the study of Hegel's philosophy and especially of his logic. Second edition, revised and augmented. xix,477 p. D. Oxford: Clarendon Press, 1894.

Jevons, William Stanley.

162 0001

³⁰¹¹ Studies in deductive logic. A manual for students. xxviii,304 p. il. D. London: Macmillan & Co., 1880.

Sidgwick, Alfred.

165 0300

⁶¹⁷ Fallacies. A view of logic from the practical side. xvi,375 p. D. (International scientific series, vol. 47.) New York: D. Appleton & Co., 1884.

170 ETHICS

Stephen, Leslie.**170.2 O200**

²⁸⁷⁹ The science of ethics. xxviii,462 p. O. New York: G. P. Putnam's Sons, 1882.

Sidgwick, Henry.**170.2 P001**

¹⁰⁷⁶¹ The methods of ethics. Fourth edition. xxx,[2],522 p. O. London: Macmillan & Co., 1890.

Murray, John Clark.**170.2 P101**

¹⁸⁰²² An introduction to ethics. vii,407 p. D. Boston: De Wolfe, Fiske & Co., c. 1891.

Spencer, Herbert.**170.2 P200**

⁶⁸⁷² The principles of ethics. 2 vol. O. [SPENCER, H. Synthetic philosophy.] New York: D. Appleton & Co., 1896-1897, pref. 1893.

Wundt, Wilhelm.**170.2 P201**

¹²⁰¹² Ethics: an investigation of the facts and laws of the moral life. Translated from the second German edition (1892) by Edward Bradford Titchener, Julia Henrietta Gulliver and Margaret Floy Washburn. . . . 2 vol. O. London: Swan Sonnenschein & Co., 1897.

Contents: Vol. 1. The facts of the moral life. Vol. 2. Ethical systems.

Mackenzie, John Stuart.**170.2 P700**

¹⁷⁷⁸⁷ A manual of ethics. Third edition. Revised, enlarged, and in part rewritten. xvi,456 p. D. (University tutorial series.) London: W. B. Clive, 1899.

Bosanquet, Bernard.**170.4 B65**

⁹⁰⁹⁷ The civilization of Christendom and other studies. viii,383 p. D. (Ethical library.) London: Swan Sonnenschein & Co., 1893.

Contents: 1. Future of religious observance. 2. Some thoughts on the transition from paganism to Christianity. 3. The civilization of Christendom. 4. Old problems under new names. 5. Are we agnostics? 6. The communication of moral ideas as a function of an ethical society. 7. Right and wrong in feeling. 8. Training in enjoyment. 9. Luxury and refinement. 10. The antithesis between individualism and socialism philosophically considered. 11. Liberty and legislation.

Royce, Josiah.**170.4 R81**

¹⁶⁷⁷³ Studies of good and evil. A series of essays upon problems of philosophy and of life. xvii,384 p. D. New York: D. Appleton & Co., 1898.

Contents: 1. The problem of Job. 2. The case of John Bunyan. 3. Tennyson and pessimism. 4. The knowledge of good and evil. 5. Natural law, ethics, and evolution. 6. The implications of self-consciousness. 7. Some observations on the anomalies of self-consciousness. 8. Self-consciousness, social consciousness and nature. 9. Originality and consciousness. 10. Meister Eckhart. 11. An episode of early California life: the squatter riot of 1850 in Sacramento. 12. Jean Marie Guyau.

Ruskin, John.**170.4 R89**

¹⁴⁷⁴³ Sesame and lilies. Two lectures 1. Of kings' treasuries. 2. Of queens' gardens. With an introduction by Charles Eliot Norton. Brantwood edition. xvii,180 p. D. New York: C. E. Merrill & Co., 1891.

Sidgwick, Henry.**170.4 S568**

¹²⁴³⁸ Practical ethics. A collection of addresses and essays. vi,[2]. 260 p. D. [Ethical library.] London: Swan Sonnenschein & Co., 1898.

Stephen, Leslie.**170.4 S828**

¹⁷⁶⁹⁹ Social rights and duties. Addresses to ethical societies. 2 vol. D. (Ethical library.) London: Swan Sonnenschein & Co., 1896.

Contents: Vol. 1. The aims of ethical societies. Science and politics. The sphere of political economy. The morality of competition. Social equality. Ethics and the struggle for existence. Vol. 2. Heredity. Punishment. Luxury. The duties of authors. The vanity of philosophising. Forgotten benefactors.

Sidgwick, Henry.**170.9 O600**

¹³⁶¹ Outlines of the history of ethics, for English readers. xxiv,276 p. D. London: Macmillan & Co., 1886.

Lecky, William Edward Hartpole.**170.94 N700**

^{64*6} History of European morals from Augustus to Charlemagne. Third edition, revised. 2 vol. D. New York: D. Appleton & Co., 1887, pref. 1877.

Kant, Immanuel.**171 F1**

¹⁰⁵⁹⁷ Kant's Critique of practical reason and other works on the theory of reason. Translated by Thomas Kingsmill Abbott. Being an enlarged edition of "Kant's Theory of ethics." With memoir. lxiv,438,[2] p. 1 por. D. London: Longmans, Green & Co., 1879.

Morley, John.**171 N400**

⁹⁵⁷ On compromise. x,214 p. O. London: Chapman & Hall, 1874.

Green, Thomas Hill.

171 O300

¹⁰⁷⁵⁸ Prolegomena to ethics. Edited by A. C. Bradley. xxxv,427 p. O. Oxford: Clarendon Press, 1883.

Martineau, James.

171 O601

⁸²⁰ Types of ethical theory. Second edition, revised. 2 vol. O. Oxford: Clarendon Press, 1886.

Muirhead, John Henry.

171 P200

¹⁵⁸¹⁸ The elements of ethics. An introduction to moral philosophy. xiii,239 p. D. [University extension manuals.] New York: C. Scribner's Sons, 1892.

Seth, James.

171 P400

⁶⁷²⁶ A study of ethical principles. xvi,460 p. O. Edinburgh: W. Blackwood & Sons, 1894.

D'Arcy, Charles F.

171 P501

¹⁸¹⁷⁴ A short study of ethics. xxvii,278 p. D. London: Macmillan & Co., 1895.

Williams, Charles Mallory.

171.7 P200

¹⁷⁷⁸⁸ A review of the systems of ethics founded on the theory of evolution. xv,581 p. O. New York: Macmillan & Co., 1893.

Evans, Edward Payson.

171.7 P700

¹⁶⁸⁹⁶ Evolutional ethics and animal psychology. v,386 p. D. New York: D. Appleton & Co., 1898.
"Bibliography" p. 359-367.

MacCunn, John.

172.1 P400

⁶⁹¹³ Ethics of citizenship. [Third edition.] x,[2],148 p. D. Glasgow: J. Maclehose & Sons, 1896.
Contains a chapter: "Some economic and moral aspects of luxury."

Andrews, Elisha Benjamin.

174 P400

⁹⁷⁰⁷ Wealth and moral law. The Carew lectures for 1894, Hartford Theological Seminary. 135 p. D. Hartford, Conn.: Hartford Seminary Press, 1894.

Cyclopædia.

L178.03 P100

⁹⁷⁰⁰ The Cyclopædia of temperance and prohibition. A reference book of facts, statistics, and general information on all phases of the drink question, the temperance movement and the prohibition agitation. 671 p. Q. New York: Funk & Wagnalls, 1891.

Wines, Frederick Howard, & Koren, John.

178.4 P700

⁵⁷⁰⁷ The liquor problem in its legislative aspects. An investigation made under the direction of Charles W. Eliot, Seth Low, and James C. Carter, sub-committee of the Committee of Fifty to investigate the liquor problem. vi,[2],342 p. il. D. Boston: Houghton, Mifflin & Co., 1897.

180-190 ANCIENT AND MODERN PHILOSOPHERS

Benn, Alfred William.**180 B43**

¹⁷¹⁴⁷ The Greek philosophers. 2 vol. O. London: Kegan Paul, Trench, & Co., 1882.

Zeller, Eduard.**180 Z3**

¹³⁴⁹⁶ A history of eclecticism in Greek philosophy. Translated from the German with the author's sanction by S. F. Alleyne. viii, 383 p. D. London: Longmans, Green, & Co., 1883.

"This is a translation of the second section of Dr. Zeller's 'Philosophie der Griechen, Dritter Theil, Erste Abtheilung.'"

Zeller, Eduard.**182 Z3**

¹⁵¹⁰⁵ A history of Greek philosophy from the earliest period to the time of Socrates. With a general introduction. Translated from the German ... with the author's sanction by S. F. Alleyne. 2 vol. D. London: Longmans, Green, & Co., 1881.

Zeller, Eduard.**185 Z3**

⁷⁹⁶¹ Aristotle and the earlier Peripatetics. Being a translation from Zeller's Philosophy of the Greeks. By B. F. C. Costelloe and J. H. Muirhead. 2 vol. D. London: Longmans, Green, & Co., 1897.

Aristoteles.**185.1 I**

¹⁰⁶⁰⁷ The politics and economics of Aristotle, translated, with notes, original and selected, and analyses. To which are prefixed, an introductory essay and a life of Aristotle, by Dr. Gillies. By Edward Walford. [6],lxxx,338,[2] p. D. [Bohn's classical library.] London: G. Bell & Sons, 1881.

Grote, George.**185.1 G91**

⁹⁵ Aristotle. Edited by Alexander Bain and G. Croom Robertson. Third edition. xvi,681 p. O. London: J. Murray, 1883.

Bacon, Francis, *Baron Verulam*.**192.06 I**

⁶³⁷⁵ Bacon's Essays and Colours of good and evil, with notes and glossarial index by W. Aldis Wright. [Third edition.] xxxi,388 p. S. London: Macmillan & Co., 1892, pref. 1865.

Fowler, Thomas, *M. A.***192.06 F82**

¹⁴⁹⁷ Bacon. vi,202 p. D. (English philosophers.) London: Sampson Low, ... , & Rivington, 1881.

Mill, John Stuart.**192.57 M59**

⁸⁴⁵ Autobiography. vi,313 p. O. New York: H. Holt & Co., 1873.

- Fowler, Thomas, *M. A.*** 192.81 F82
¹⁴⁹⁹ Shaftesbury and Hutcheson. viii,240 p. D. (English philosophers.) London: Sampson Low, . . . & Rivington, 1882.
- Farrer, James Anson.** 192.82 F24
¹⁵⁰⁰ Adam Smith (1723-1790). [2],iv,201,[3] p. D. (English philosophers.) London: Sampson Low, . . . , & Rivington, 1881.
- Everett, Charles Carroll.** 193.28 E93
¹⁵⁶¹¹ Fichte's Science of knowledge. A critical exposition. xvi,287 p. D. [German philosophical classics for English readers and students.] Chicago: S. C. Griggs & Co., 1884.
- Harris, William Torrey.** 193.39 H24
¹⁰⁵⁹⁸ Hegel's Logic. A book on the genesis of the categories of the mind. A critical exposition. xxx,403 p. D. [German philosophical classics.] Chicago: S. C. Griggs & Co., 1890.
- Kedney, John Steinfort.** 193.39 K23
¹⁵⁶¹² Hegel's *Æsthetics*. A critical exposition. xviii,302 p. D. [German philosophical classics for English readers and students.] Chicago: S. C. Griggs & Co., 1885.
- Watson, John, *M. A., LL. D.*** 193.79 W33
¹⁵⁶⁵⁵ Schelling's Transcendental idealism. A critical exposition. xv, 251 p. D. [German philosophical classics for English readers and students.] Chicago: S. C. Griggs & Co., 1882.
- Cousin, Victor.** 194.19 I
¹¹⁸⁸¹ Lectures on the true, the beautiful, and the good. Increased by an appendix on French art. Translated, with the approbation of M. Cousin, by O. W. Wight. 391 p. O. New York: D. Appleton & Co., 1854.
- Mahaffy, John Pentland.** 194.22 M27
¹⁰⁷³¹ Descartes. vi,211 p. 1 por. S. [Philosophical classics for English readers.] Philadelphia: J. B. Lippincott & Co., 1881.

200 RELIGION

- Brinton, Daniel Garrison.** 209.1 P700
⁹⁶²⁷ Religions of primitive peoples. xiv,[2],264 p. O. [American lectures on the history of religions. Second series.] New York: G. P. Putnam's Sons, 1897.
- Lang, Andrew.** 209.1 P800
¹³⁷⁹⁶ The making of religion. [8],380 p. O. London: Longmans, Green, & Co., 1898.

Seebohm, Frederic.**209.2 S45I**

¹²²³⁴ The Oxford reformers: John Colet, Erasmus, and Thomas More. Being a history of their fellow-work. The second edition (revised and enlarged). xiv,551 p. O. London: Longmans, Green, & Co., 1869.

Bible.**L220 B2**

⁷³⁹⁶ The parallel Bible. The Holy Bible, containing the Old and New Testaments, translated out of the original tongues: being the authorized version arranged in parallel columns with the revised version. . . . x,[2],1024,xii,310 p. Q. Oxford: University Press 1886.

Cruden, Alexander.**L220.2 F1**

⁷²⁹ A complete concordance to the Old and New Testament: or a dictionary and alphabetical index to the bible. . . . To which is added a concordance to the apocrypha. With a compendium of the bible, and a brief account of its history and excellency. With a sketch of the life and character of the author, by William Youngman. xii,[2],719,[1] p. 1 por. Q. London: J. Dinnis, 1854.

Smith, Sir William, LL. D.**220.3 O400**

¹⁷⁶⁹⁸ A dictionary of the Bible: comprising its antiquities, biography, geography, natural history and literature. With the latest researches and references to the revised version of the New Testament. Revised and edited by Rev. F. N. and M. A. Peloubet. [Teacher's edition.] 818 p. il. 1 pl. 8 maps. D. Philadelphia: H. T. Coates & Co., c. 1884.

Hastings, James, editor.**L220.3 P800**

¹²¹⁷⁹ A dictionary of the Bible dealing with its language, literature, and contents, including the biblical theology. Edited by James Hastings, with the assistance of John A. Selbie, and, chiefly in the revision of the proofs, of A. B. Davidson, S. R. Driver, H. B. Swete. . . . Vol. 1—. il. maps. Q. New York: C. Scribner's Sons, 1898—.

Davis, John D.**220.3 P801**

¹⁸²⁵³ A dictionary of the Bible. vii,802 p. il. 2 p. of maps, 9 maps. O. Philadelphia: Westminster Press, 1898.

290 MYTHOLOGY**Clodd, Edward.****291 O500**

⁹⁹²⁷ Myths and dreams. Second edition, revised. x,251 p. D. London: Chatto & Windus, 1891.

- Spencer, Herbert.** 302 N300
³⁴⁰⁹ The study of sociology. xiv,451 p. D. (International scientific series, vol. 5.) New York: D. Appleton & Co., 1884.
- Fairbanks, Arthur.** 302 P600
⁴⁰⁷⁷ Introduction to sociology. xv,274 p. O. [English and foreign philosophical library.] New York: C. Scribner's Sons, 1896.
- Giddings, Franklin Henry.** 302 P800
¹⁶⁹⁹³ The elements of sociology. A text-book for colleges and schools. xi,353 p. O. New York: Macmillan Co., 1898.
- Wright, Carroll Davidson.** 302 P802
¹⁷⁸⁵⁹ Outline of practical sociology. With special reference to American conditions. xxv,431 p. 1 map, 10 tables. O. (American citizen series.) New York: Longmans, Green, & Co., 1899.
 Contents: 1. The basis of practical sociology. 2. Units of social organism. 3. Questions of population. 4. Questions of the family. 5. The labour system. 6. Social well-being. 7. The defence of society. 8. Remedies.
 "References," at the beginning of each chapter.
- Lalor, John Joseph, *editor*.** L303 O100
¹⁷⁹ Cyclopædia of political science, political economy, and of the political history of the United States, by the best American and European writers. 3 vol. Q. New York: Maynard, Merrill, & Co., 1895.
- Handwörterbuch.** L303 P001
⁵⁷⁹¹ Handwörterbuch der Staatswissenschaften. Herausgegeben von Dr. J. Conrad, Dr. L. Elster, Dr. W. Lexis, Dr. Edg. Loening. 6 vol. Q. Jena: G. Fischer, 1890-1894.
 ——— Erster Ergänzungsband. ix,[1],904 p. Q. Jena 1895.
 ——— Zweiter Supplementband. . . . Mit Register zum ersten und zweiten Supplementband, bearbeitet von Dr. Paul Lippert. x,1076 p. Q. Jena 1897.
- Block, Maurice.** L303 P600
⁷⁰⁷¹ Petit dictionnaire politique et social. vi,800 p. Q. Paris: Librairie académique Didier, 1896.
- Bliss, William Dwight Porter, *editor*.** L303 P700
¹⁰⁶⁵² The encyclopedia of social reform. Including political economy, political science, sociology, and statistics, covering anarchism, charities, civil service, currency, land and legislation reform, penology, socialism, social purity, trades unions, woman suffrage, etc. . . . vii,[1],1439 p. il. Q. New York: Funk & Wagnalls Co., 1897.

Addams, Jane, & others.**304 A222**

⁹⁹⁷⁶ Philanthropy and social progress. Seven essays by Miss Jane Addams, Robert A. Woods, Father J. O. S. Huntington, Professor Franklin H. Giddings, and Bernard Bosanquet. Delivered before the School of Applied Ethics at Plymouth, Mass. during the season of 1892. With introduction by Professor Henry C. Adams. xi,268 p. D. New York: T. Y. Crowell & Co., c. 1893.

Contents: 1. Addams, J. The subjective necessity for social settlements. 2. —. The objective value of a social settlement. 3. Woods, R. A. The university settlement idea. 4. Huntington, J. O. S. Philanthropy—its success and failure. 5. —. Philanthropy and morality. 6. Giddings, F. H. The ethics of social progress. 7. Bosanquet, B. The principles and chief dangers of the administration of charity.

Bosanquet, Bernard, *editor*.**304 B65**

²²³ Aspects of the social problem, by various writers. x,334 p. D. London: Macmillan & Co., 1895.

Contents: 1-2. Bosanquet, B. The duties of citizenship. 3. Dendy, H. The children of working London. 4. M'Callum, M. The protection of children. 5. Dendy, H. The position of women in industry. 6. Dendy, H. Marriage in East London. 7. Dendy, H. The industrial residuum. 8. Bosanquet, B. Character in its bearing on social causation. 9. Dendy, H. Old pensioners. 10. Loch, C. S. Pauperism and old-age pensions. 11. Dendy, H. The meaning and methods of true charity. 12. M'Callum, M. Some aspects of reform. 13. Dendy, H. Origin and history of the English poor law. 14. Loch, C. S. Some controverted points in the administration of poor relief. 15. Loch, C. S. Returns as an instrument in social science. 16. Bosanquet, B. Socialism and natural selection. 17. Bosanquet, B. The principle of private property. 18. Bosanquet, B. The reality of the general will.

Gladden, Washington.**304 G45**

¹²⁵⁰³ Social facts and forces. The factory—the labor union—the corporation—the railway—the city—the church. iv,[2],235 p. D. New York: G. P. Putnam's Sons, 1897.

Massart, Jean, & Vandervelde, Emile.**304 M38**

⁷⁸⁰⁸ Parasitism, organic and social. Translated by William Macdonald, revised by J. Arthur Thomson. With a preface by Prof. Patrick Geddes. xi,124 p. D. [Social science series, vol. 86.] London: Swan Sonnenschein & Co., 1895.

"Works consulted," p. 123-124.

Mill, John Stuart.**304 M59**

⁸⁴⁷ On liberty. The subjection of women. [2],394 p. O. New York: H. Holt & Co., 1873.

Ruskin, John.**304 R89**

⁶⁷⁶² The crown of wild olive. Four lectures on industry and war. With an introduction by Charles Eliot Norton. Brantwood edition. x,[2],250 p. D. New York: Maynard, Merrill, & Co., 1893.

Brookings, Walter Du Bois, &

307 P500

12060

Ringwalt, Ralph Curtis, *editors*.

Briefs for debate on current political, economic, and social topics. With an introduction by Albert Bushnell Hart. xlvii, 213 p. D. New York: Longmans, Green, & Co., 1897.

"Bibliography of debating," p. xli-xlvii. Bibliographical references to each topic.

Knapp, John Matthew, *editor*.

307.5 P500

13971

The universities and the social problem. An account of the university settlements in East London. x, 235 p. D. London: Rivington, Percival & Co., 1895.

Contents: Gorst, Sir J. Introduction: "Settlements" in England and America. Ingram, A. F. W. Working men's clubs. Barnett, [S. A.] Hospitalities. Alden, P. The university settlement in relation to local administration. Jackson, C. The children's country holidays fund, and the settlements. Corbett, M. Mayfield House. Talbot, M. St. Margaret's House, Bethnal Green. Legge, H. The Repton Club. Bailward, W. A. The Oxford House and the organization of charity. Jay, O. Shelters. Mace, Mrs. Thrift and social intercourse. Peppin, T. S. The clubs of the Club and Institute Union. Fiennes, G. The Federation of Working Men's Social Clubs: what it is and what it may be.

Ely, Richard Theodore, *editor*.

L308 2

18666

Political economy, political science and sociology. A practical and scientific presentation of social and economic subjects prepared for the University Association* by a corps of specialists under the supervision of Richard T. Ely. iv, 793 p. il. 1 pl. Q. Chicago: University Association, c. 1888-1899.

Bibliographies scattered through the book.

Originally issued in periodical form.

309 HISTORY OF SOCIAL SCIENCES AND CIVILIZATION

Maine, Sir Henry Sumner.

309 M100

603

Ancient law: its connection with the early history of society and its relation to modern ideas. Tenth edition. x, [2], 415 p. O. London: J. Murray, 1885.

Maine, Sir Henry Sumner.

309 O300

10057

Dissertations on early law and custom, chiefly selected from lectures delivered at Oxford. 6, [2], 402 p. O. New York: H. Holt & Co., 1886.

Contents: 1. The sacred laws of the Hindus. 2. Religion and law. 3. Ancestor-worship. 4. Ancestor-worship and inheritance. 5. Royal succession and the Salic law. 6. The king, in his relation to early civil justice. 7. Theories of primitive society. 8. East European house communities. 9. The decay of feudal property in France and England. 10. Classifications of property. 11. Classifications of legal rules.

Jhering, Rudolph von.

309 P401

¹⁰²⁹⁶ The evolution of the Aryan. By Rudolph von Ihering. Translated from the German by A. Drucker. xviii,[2],412 p. O. New York: H. Holt & Co., 1897.

Lubbock, Sir John, Bart.

309.1 N001

⁵¹⁷ The origin of civilization and the primitive condition of man. Mental and social condition of savages. xvi,380 p. 20 il. 5 pl. O. New York: D. Appleton & Co., 1871.

Tylor, Edward Burnett.

309.1 N300

⁷⁰ Primitive culture. Researches into the development of mythology, philosophy, religion, language, art and custom. First American, from the second English edition. 2 vol. O. New York: H. Holt & Co., 1874.

Maine, Sir Henry Sumner.

309.1 N400

¹⁰⁸¹⁶ Lectures on the early history of institutions. Seventh edition. viii,[2],412 p. O. London: J. Murray, 1897.

Gummere, Francis Barton.

309.1 P200

¹²⁸⁰⁷ Germanic origins. A study in primitive culture. viii,[2],490 p. O. New York: C. Scribner's Sons, 1892.

Morley, John.

309.275 M821

³⁷⁰⁵ Rousseau. [Third edition.] 2 vol. D. London: Macmillan & Co., 1891, pref. 1886.

Fustel de Coulanges, [Numa Denis].

309.3 N400

⁸²⁵ The ancient city: a study on the religion, laws, and institutions of Greece and Rome. Translated from the latest French edition by Willard Small. 529 p. O. Boston: Lee & Shepard, 1874.

Morgan, Lewis Henry.

309.3 N700

¹⁵³⁶⁵ Ancient society; or, Researches in the lines of human progress from savagery through barbarism to civilization. xvi,560 p. O. New York: H. Holt & Co., 1878.

Ducoudray, Gustave.

309.3 O600

¹³⁶⁹ The history of ancient civilization. A handbook based upon M. Gustave Ducoudray's "Histoire sommaire de la civilization." Edited by the Rev. J. Verschoyle. xii,295 p. il. O. London: Chapman & Hall, 1889.

Maspéro, Gaston.

309.3 P200

²⁷⁹⁹ Life in ancient Egypt and Assyria. From the French. xv,376 p. 188 il. D. New York: D. Appleton & Co., 1892.

- Simcox, Edith J.** 309.3 P400
⁹⁰⁹⁵ Primitive civilizations; or, Outlines of the history of ownership in archaic communities. 2 vol. il. O. London: Swan Sonnenschein & Co., 1894.
- Cunningham, William.** 309.3 P800
¹²⁴¹⁴ An essay on western civilization in its economic aspects. (Ancient times.) xii,220 p. il. 4 maps. D. [Cambridge historical series.] Cambridge: University Press, 1898.
- Guhl, Ernst, & Koner, W.** 309.37 N300
⁶⁵⁶¹ The life of the Greeks and Romans, described from antique monuments. Translated from the third German edition by F. Hueffer. ix,[2],620 p. 543 il. O. London: Chapman & Hall, 1875.
- Mahaffy, John Pentland.** 309.38 N900
⁵⁵²⁶ Social life in Greece from Homer to Menander. [Seventh edition.] xvi,495 p. D. London: Macmillan & Co., 1894.
- Mahaffy, John Pentland.** 309.38 O700
¹⁷⁹¹⁹ Greek life and thought from the age of Alexander to the Roman conquest. xxxviii,600 p. D. London: Macmillan & Co., 1887.
- Mahaffy, John Pentland.** 309.38 P601
¹⁹³¹⁷ Greek life and thought from the death of Alexander to the Roman conquest. Second edition, corrected and considerably enlarged. xlii,669 p. D. [Social life of the Greeks, vol. 2.] London: Macmillan & Co., 1896.
- May, Sir Thomas Erskine.** 309.4 N700
²¹⁸ Democracy in Europe: a history. 2 vol. O. London: Longmans, Green, & Co., 1877.
- Ducoudray, Gustave.** 309.4 O600
¹³⁷⁰ The history of modern civilization. A handbook based upon M. Gustave Ducoudray's "Histoire sommaire de la civilization." xx,585,[3] p. il. O. London: Chapman & Hall, 1891.
 Edited by J. Verschoyle.
- Rogers, James Edwin Thorold.** 309.4 O800
²¹⁷ The economic interpretation of history. (Lectures delivered in Worcester College Hall, Oxford, 1887-8.) xvii,[3],547 p. O. London: T. Fisher Unwin, 1888.
- Nash, Henry Sylvester.** 309.4 P700
⁸⁰⁸⁷ Genesis of the social conscience. The relation between the establishment of Christianity in Europe and the social question. viii, 309 p. D. New York: Macmillan Co., 1897.

Woods, Robert Archey.

309.42 P100

¹¹⁵⁷⁹ English social movements. Third edition. vii,[2],277 p. D. New York: C. Scribner's Sons, 1897, c. 1891.

Contents: 1. The labor movement. 2. Socialism. 3. The university settlements. 4. University extension. 5. The social work of the church. 6. Charity and philanthropy. 7. Moral and educational progress.

Porritt, Edward.

309.42 P302

¹⁷¹⁷³ The Englishman at home. His responsibilities and privileges. xiv,379,[2] p. D. New York: T. Y. Crowell & Co., c. 1893.

Trall, Henry Duff, *editor*.

309.42 P400

⁸¹⁶³ Social England. A record of the progress of the people in religion, laws, learning, arts, industry, commerce, science, literature and manners, from the earliest times to the present day. By various writers. 6 vol. O. New York: G. P. Putnam's Sons, 1894-1897.

"Authorities" at the ends of the chapters.

Vol. 1 published in 1896.

Scudder, Vida Dutton.

309.42 P800

¹⁷⁰⁰⁴ Social ideals in English letters. [6],329 p. O. Boston: Houghton, Mifflin & Co., 1898.

Contents: Part 1. The England of our forefathers: 1. William Langland and the Middle Ages. 2. The Utopia of Sir Thomas More. 3. The age of Jonathan Swift. Part II. The England of our fathers: 1. Outlines. 2. Social pictures: Dickens and Thackeray. 3. The awakening: "Sartor resartus". 4. The indictment. 5. The new intuition. 6. George Eliot and the social conscience. 7. A glimpse of America. 8. What to do: according to Carlyle. 9. What to do: according to Ruskin. 10. What to do: according to Arnold. 11. Toward democracy. 12. Toward authority. Conclusion: Contemporary England.

Taine, Hippolyte Adolphe.

309.44 N500

³⁵¹⁴ The origins of contemporary France. The Ancient régime. Translated by John Durand. xvi,421 p. O. New York: H. Holt & Co., 1876.

Symonds, John Addington.

309.45 N500

¹²¹¹⁶ Renaissance in Italy. 5 parts in 7 vol. por. O. New York: H. Holt & Co., 1881-1887.

Contents: Part 1. The age of despots. Part 2. The revival of learning. Part 3. The fine arts. Part 4. Italian literature. Part 5. The Catholic reaction.

Parts 3 and 5 are in Author's edition.

Part 3 has pref. date 1877.

Taine, Hippolyte Adolphe.

309.44 P001

¹⁹⁵⁰⁷ The modern régime. Translated by John Durand. 2 vol. O. (Les origines de la France contemporaine.) London: Sampson Low, ... & Rivington, 1891-1894.

- Bazin, René.** 309.45 P400
¹¹⁵⁹⁵ The Italians of to-day. From the French. Translated by William Marchant. iii, 247 p. D. New York: H. Holt & Co., 1897.
- Williams, Samuel Wells.** 309.51 O200
¹⁴⁹ ... The Middle Kingdom. A survey of the geography, government, literature, social life, arts, and history of the Chinese empire and its inhabitants. Revised edition. 2 vol. il. pl. por. map in pocket. O. New York: C. Scribner's Sons, 1883.
- Biart, Lucien.** 309.72 O500
¹⁵⁷⁹⁵ The Aztecs. Their history, manners, and customs. From the French. Authorized translation by J. L. Garner. 343 p. 18 il. 2 maps. O. Chicago: A. C. McClurg & Co., 1892, c. 1886.
- St. John, Sir Spenser.** 309.7294 O800
¹⁰⁰⁴ Hayti, or the black republic. Second edition. xxiv, 389 p. 1 map. O. New York: Scribner & Welford, 1889.
- Tocqueville, Alexis de.** 309.73 L002
¹⁷⁷¹⁵ Democracy in America. Translation by Henry Reeve, as revised and annotated from the author's last edition by Francis Bowen. With an introduction by Daniel C. Gilman. 2 vol. por. map. O. New York: Century Co., 1898.
 "Bibliographical note", p. xlvii-xlix.
- Shaler, Nathaniel Southgate, editor.** L309.73 P400
⁴¹⁴ The United States of America. A study of the American commonwealth, its natural resources, people, industries, manufactures, commerce, and its work in literature, science, education, and self-government. 2 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1894.
- Bryce, James.** 309.73 P401
⁶¹²⁷ The American commonwealth. Third edition, completely revised throughout, with additional chapters. 2 vol. O. New York: Macmillan Co., 1896-1897.
- South End House, Boston.** 309.744 P800
¹⁷⁶⁵⁸ The city wilderness. A settlement study by residents and associates of the South End House. Edited by Robert A. Woods, Head of the House. South End, Boston. vii, [4], 319 p. 6 maps, 1 table. D. Boston: Houghton, Mifflin & Co., 1898.
 Contents: 1. Cole, W. I. Introductory. 2. Haynes, F. E. Historical. 3. Bushée, F. A. Population. 4. Underhill, E. D. Public health. 5. Woods, R. A. Work and wages. 6. The roots of political power. 7. Cole, W. I. Criminal tendencies. 8. Haynes, F. E. Amusements. 9. Cole, W. I. The church and the people. 10. Strongholds of education. 11. Woods, R. A. Social recovery. 12. —. The total drift.

Cable, George Washington. 309.75 O500

⁹⁶⁷⁹ The silent South. Together with The freedman's case in equity and The convict lease system. New edition. vi,[2], 213 p. 1 por. D. New York: C. Scribner's Sons, 1895, c. 1889.

Cable, George Washington. 309.75 P001

⁹⁶⁹³ The negro question. vi,[2], 173 p. D. New York: C. Scribner's Sons, 1890.

310 STATISTICS

Smith, Richmond Mayo-. 310.2 P500

⁴⁵⁰¹ Science of statistics. Part I. Statistics and sociology. xvi, 399 p. O. New York: Macmillan & Co., 1895.

Mulhall, Michael George. L310.3 P900

¹⁹⁰²⁹ The dictionary of statistics. Fourth edition, revised to November 1898. [8], 853 p. 10 tables. Q. London: G. Routledge, 1899.

Commercial year book. 310.51 I

⁷⁵³⁴ The Commercial year book, a statistical annual, ... , of the United States and foreign countries. Published by The Journal of commerce and commercial bulletin. Continued from vol. 1. 1896. il. tables. O. New York 1896-.

Vol. 2- edited by Walter A. Dodsworth.

Vol. 1 has sub-title: a statistical and historical record.

Pidgin, Charles Felton. 311 O800

¹²²²⁴ Practical statistics: a handbook for the use of the statistician at work, students in colleges and academies, agents, census enumerators, etc. vi,[2], 201 p. il. O. Boston: W. E. Smythe Co., 1888.

Meitzen, August. 311 P100

³⁵⁵² History, theory, and technique of statistics. Translated, with an introduction, by Roland P. Falkner. 2 vol. in 1, paged continuously; vol. 1: 1-100 p.; vol. 2: 101-243 p. il. tables. O. Philadelphia 1891.

Published as supplement to the *Annals of the American Academy of Political and Social Science*, March and May, 1891.

Bertillon, Jacques. L311 P500

¹¹⁵⁷³ Cours élémentaire de statistique administrative. Elaboration des statistiques — organisation des bureaux de statistique — éléments de démographie. Ouvrage conforme au programme arrêté par le Conseil Supérieur de Statistique pour l'examen d'admission dans diverses administrations publiques. [2], iii, 599 p. il. 3 tables, 1 map. Q. Paris: Société d'Éditions Scientifiques, 1895.

Newsholme, Arthur.**312 0900**

¹¹⁰⁸⁰ The elements of vital statistics. Third edition. xxiv,326 p. il. D. London: Swan Sonnenschein & Co., 1892.

U. S. A. Treasury Department. Bureau of Statistics.**317.3 3**

⁵⁴⁹² Statistical abstract of the United States. . . . Continued from no. 1. 1878. tables. O. Washington 1879-.

320 POLITICAL SCIENCE**Platon.****320.1 A3**

¹³⁹⁵⁴ The Republic of Plato translated into English with introduction, analysis, marginal analysis, and index by B. Jowett. The third edition, revised and corrected throughout. [6],ccxxxi,379 p. O. Oxford: Clarendon Press, 1888.

Leroy-Beaulieu, Paul.**320.1 0900**

¹⁰⁵⁴⁵ The modern state in relation to society and the individual. [4], 215 p. D. [Social science series, vol. 40.] London: Swan Sonnenschein & Co., 1891.

Translated by A. C. Morant.

Ritchie, David George.**320.1 P400**

⁷⁶⁴⁵ Natural rights. A criticism of some political and ethical conceptions. xvi,304 p. O. [Library of philosophy.] London: Swan Sonnenschein & Co., 1895.

Willoughby, Westel Woodbury.**320.1 P600**

¹³⁷² An examination of the nature of the state. A study in political philosophy. xii,448 p. O. New York: Macmillan & Co., 1896.

M'Kechnie, William Sharp.**320.1 P601**

⁵⁹⁴⁰ The state & the individual. An introduction to political science, with special reference to socialistic and individualistic theories. xv,451 p. O. Glasgow, J. MacLehose & Sons, 1896.

Woolsey, Theodore Dwight.**320.2 N700**

¹¹³³¹ Political science; or, The state theoretically and practically considered. [Second edition.] 2 vol. O. New York: C. Scribner's Sons, 1893, c. 1877.

Bluntschli, Johann Kaspar.**320.2 0500**

⁹⁶⁹¹ The theory of the state. Authorised English translation from the sixth German edition. Second edition. xxv,[2],550 p. D. Oxford: Clarendon Press, 1895.

Burgess, John William.**320.2 P001**

³¹⁴⁷ Political science and comparative constitutional law. 2 vol. O. (COLUMBIA COLLEGE. FACULTY OF POLITICAL SCIENCE. Systematic series.) Boston: Ginn & Co., 1891.

Sidgwick, Henry.**320.2 P700**

¹⁰⁸³³ The elements of politics. Second edition, revised throughout. xxxiii,665 p. O. London: Macmillan & Co., 1897.

Wilson, Woodrow.**320.9 P500**

¹²⁰³⁶ The state. Elements of historical and practical politics. A sketch of institutional history and administration. xxxvi,686 p. D. Boston, U. S. A.: D. C. Heath & Co., 1895, c. 1889.

Lowell, Abbott Lawrence.**320.94 P700**

¹⁰¹¹⁰ Governments and parties in Continental Europe. [Second edition.] 2 vol. O. Boston: Houghton, Mifflin & Co., 1897.

Bodley, John Edward Courtenay.**320.944 P900**

¹⁸²⁷⁰ France. New and revised edition. xxvii,676 p. O. London: Macmillan & Co., 1899.

Maine, Sir Henry Sumner.**321.2 N600**

¹⁰⁹⁹⁵ Village-communities in the East and West. Six lectures delivered at Oxford. Seventh edition. xii,413 p. O. London: J. Murray, 1895.

Contains also the following lectures: The effects of observation of India on modern European thought. Address to the University of Calcutta. The theory of evidence. Roman law and legal education.

Lecky, William Edward Hartpole.**321.8 P600**

⁹⁶⁰ Democracy and liberty. 2 vol. D. New York: Longmans, Green, & Co., 1896.

Godkin, Edwin Lawrence.**321.8 P800**

¹⁶²⁵⁰ Unforeseen tendencies of democracy. [2],vii,265 p. O. Boston: Houghton, Mifflin & Co., 1898.

Contents: Former democracies. Equality. The nominating system. The decline of legislatures. Peculiarities of American municipal government. The growth and expression of public opinion. The Australian democracy.

Deploige, Simon.**321.85 P201**

¹⁷⁴⁹⁹ The referendum in Switzerland. With A letter on the referendum in Belgium by M. J. van den Heuvel. Translated into English by C. P. Trevelyan. Edited with notes, introduction, and appendices by Lilian Tomnn. lxix,334 p. D. [Studies in economics and political science, vol. 4.] London: Longmans, Green, & Co., 1898.

"Bibliography," p. 315-322.

Stanton, Elizabeth, [*born*] Cady, Anthony, Susan B., 324.2 O700
 12133 & Gage, Matilda Joslyn, *editors*.

History of woman suffrage. . . . 3 vol. por. O. Rochester, N. Y.: S. B. Anthony, 1887.

McMillan, Duncan Cameron. 324.73 O001

274 The elective franchise in the United States. A review of the effects of the caucus system upon the civil service and upon the principles and policies of political parties. With a preface by Hon. Horatio Seymour. 198 p. D. New York: G. P. Putnam's Sons, 1880.

Dallinger, Frederick William. 324.73 P700

10752 Nominations for elective office in the United States. xiv,290 p. O. [HARVARD UNIVERSITY. Harvard historical studies, vol. 4.] New York: Longmans, Green, & Co., 1897.

Lewis, Sir George Cornewall. 325.3 K100

10091 An essay on the government of dependencies. (Originally published in 1841.) Edited with an introduction by C. P. Lucas. lxviii,392 p. O. Oxford: Clarendon Press, 1891.

Froude, James Anthony. 325.342 O500

829 Oceana; or, England and her colonies. ix,[2],396 p. 8 pl. O. New York: C. Scribner's Sons, 1888.

Dilke, Sir Charles Wentworth, *Bart*. 325.342 P001

1368 Problems of Greater Britain. 2 vol. maps. O. London: Macmillan & Co., 1890.

Egerton, Hugh Edward. 325.342 P700

14317 A short history of British colonial policy. xv,503 p. O. London: Methuen & Co., 1897.

Seward, George Frederick. 325.73 O100

1005 Chinese immigration, in its social and economical aspects. xv, 420,[1] p. O. New York: C. Scribner's Sons, 1881.

Smith, Richmond Mayo-. 325.73 P001

10563 Emigration and immigration. A study in social science. xiv,316 p. D. New York: C. Scribner's Sons, 1895, c. 1890.

U. S. A. *Treasury Department*. 325.73 P500

1392 *Immigration Investigating Commission*.

Immigration service. Report of the Immigration Investigating Commission 183 p. O. Washington 1895.

Walpole, Spencer. 327.42 O200

12323 Foreign relations. [4],162 p. D. [English citizen.] London: Macmillan & Co., 1882.

- Burrows, Montagu.** 327.42 P500
⁶⁸⁹⁵ The history of the foreign policy of Great Britain. xiv,372 p. O. Edinburgh: W. Blackwood & Sons, 1895.
- Schuyler, Eugene.** 327.73 O600
⁶²⁹⁷ American diplomacy and the furtherance of commerce. xiv,469 p. O. New York: C. Scribner's Sons, 1886.
- Reddaway, William Fiddian.** 327.73 P800
¹²⁴⁸¹ The Monroe doctrine. vii,162 p. D. Cambridge: University Press, 1898.
- Skottowe, Britiffe Constable.** 328.429 O600
¹¹⁶¹⁵ A short history of parliament. [Fourth edition.] xii,339 p. D. [Social science series, vol. 44.] London: Swan Sonnenschein & Co., 1895.
- Dickinson, G. Lowes.** 328.429 P500
⁴⁵⁰⁵ The development of Parliament during the nineteenth century. viii,183 p. O. London: Longmans, Green, & Co., 1895.
- Follett, Mary Parker.** 328.739 P600
⁵⁸⁴⁸ The Speaker of the House of Representatives. With an introduction by Albert Bushnell Hart. xxvi,378 p. D. New York: Longmans, Green, & Co., 1896.
- McConachie, Lauros Grant.** 328.739 P800
¹⁶⁵⁸³ Congressional committees. A study of the origins and development of our national and local legislative methods. xiv,441 p. D. [Library of economics and politics.] New York: T. Y. Crowell & Co., c. 1898.
- Houghton, Walter R.** L329 O001
³³⁷⁵ Conspectus of the history of political parties and the federal Government. [2],81,[1] p. il. 2 unbound pl. sq. F⁴. Indianapolis, Ind.: Granger, Davis & Co., 1880.
- Brown, Everit, & Strauss, Albert.** 329 P200
¹¹⁹⁶³ A dictionary of American politics: comprising accounts of political parties, measures and men, and explanations of the constitution, divisions and practical workings of the government, together with political phrases, familiar names of persons and places, noteworthy sayings, etc., etc. 574 p. D. New York: A. L. Burt, 1895.

330 POLITICAL ECONOMY

330.1-330.9 GENERAL WORKS

Ruskin, John.

330.1 N100

⁸⁷⁸⁴ *Munera pulveris*. Six essays on the elements of political economy. With an introduction by Charles Eliot Norton. Brantwood edition. xl,217 p. D. New York: C. E. Merrill & Co., 1891.

Contents: 1. Definitions. 2. Store-keeping. 3. Coin-keeping. 4. Commerce. 5. Government. 6. Mastership.

Marx, Karl.

330.1 O300

⁵⁹⁴ *Capital: a critical analysis of capitalist production*. Translated from the third German edition, by Samuel Moore and Edward Aveling, and edited by Frederick Engels. xxxi,816 p. O. New York: Appleton & Co., 1889.

Graham, William, *M. A.*

330.1 O600

²⁹⁰ *The social problem in its economical, moral, and political aspects*. xx,479 p. O. London: Kegan Paul, Trench, & Co., 1886.

Laveleye, Emile de.

330.1 O701

⁶³¹² *Luxury*. Second edition. iv,179 p. D. [Social science series, vol. 24.] London: Swan Sonnenschein & Co., 1891.

Contains a bibliography of Laveleye's works.

Contains also: Law and morals in political economy.

Böhm-Bawerk, Eugen von.

330.1 O802

¹²⁸⁸⁸ *The positive theory of capital*. Translated with a preface and analysis by William Smart. xl,428 p. O. London: Macmillan & Co., 1891.

Smart, William.

330.1 P102

¹⁷⁰⁶³ *An introduction to the theory of value on the lines of Menger, Wieser, and Böhm-Bawerk*. vi,88 p. D. London: Macmillan & Co., 1891.

Taussig, Frank William.

330.1 P600

⁴⁸⁹⁴ *Wages and capital: an examination of the wages fund doctrine*. xviii,329 p. D. New York: D. Appleton & Co., 1896.

Pantaleoni, Maffeo.

330.1 P800

¹⁶²⁹² *Pure economics*. Translated by T. Boston Bruce. xiii,315 p. 49 il. O. London: Macmillan & Co., 1898.

Macfarlane, Charles William.

330.1 P802

¹⁸⁰⁶⁵ *Value and distribution*. An historical, critical, and constructive study in economic theory. Adapted for advanced and post-graduate work. 317 p. O. Philadelphia: J. B. Lippincott Co., 1899.

Veblen, Thorstein [B.]**330.1 P900**

¹⁸⁶⁰⁶ The theory of the leisure class. An economic study in the evolution of institutions. viii,400 p. D. New York: Macmillan Co., 1899.

Contents: 1. Introductory. 2. Pecuniary emulation. 3. Conspicuous leisure. 4. Conspicuous consumption. 5. The pecuniary standard of living. 6. Pecuniary canons of taste. 7. Dress as an expression of the pecuniary culture. 8. Industrial exemption and conservatism. 9. The conservation of archaic traits. 10. Modern survivals of prowess. 11. The belief in luck. 12. Devout observances. 13. Survivals of the non-invidious interest. 14. The higher learning as an expression of the pecuniary culture.

Smith, Adam.**330.2 F1**

¹⁵⁰⁷⁷ An inquiry into the nature and causes of the wealth of nations. Edited by James E. Thorold Rogers. Second edition. 2 vol. por. O. Oxford: Clarendon Press, 1880.

Walker, Francis Amasa.**330.2 0701**

⁴⁸⁹⁶ Political economy. Third edition, revised and enlarged. vi,[2], 537 p. il. O. (American science series, advanced course.) New York: H. Holt & Co., 1888.

Denslow, Van Buren.**330.2 0801**

⁴⁸⁷⁷ Principles of the economic philosophy of society, government and industry. xxx,782 p. 9 tables. O. New York: Cassell & Co., c. 1888.

Ely, Richard Theodore.**330.2 0900**

⁴¹⁰⁴ An introduction to political economy. 358 p. O. New York: Hunt & Eaton, c. 1889.

Nicholson, Joseph Shield.**330.2 P301**

¹⁷⁰⁵⁴ Principles of political economy. Vol. 1-. O. New York: Macmillan Co., 1897-.

Vol. 1 published in 1898, c. 1893.

Ely, Richard Theodore.**330.2 P302**

¹⁷⁹⁴⁰ Outlines of economics. xii,432 p. 6 il. O. New York: Hunt & Eaton, 1893.

"Bibliography," p. 413-426.

Marshall, Alfred.**330.2 P500**

⁵⁰²² Principles of economics. Vol. 1. Third edition. xxxi,[1],823 p. il. O. London: Macmillan & Co., 1895.

Brandeis, [Louis Dembitz].**330.2 P501**

⁷⁵⁷² Business law, 390 p. O. [Boston 1895-1896.]

Notes to lectures; printed by the Massachusetts Institute of Technology for the use of its students.

No title-page.

- Ashley, William James.** 330.942 O800
¹³⁴⁸⁷ An introduction to English economic history and theory. . . .
 Third edition. [Vol. 1, part 1]–2. D. London: Longmans,
 Green, & Co., 1894–1898.
 Contents: Part 1. The Middle Ages. Part 2. The end of the Middle Ages.
 "Authorities," at the beginning of each chapter.
- Price, Langford Lovell [Frederick Rice].** 330.942 P001
⁶⁰²⁵ A short history of political economy in England, from Adam Smith
 to Arnold Toynbee. Second edition. xi, 201 p. D. [University
 extension series.] London: Methuen & Co., 1896, pref. 1890.
- Cunningham, William.** 330.942 P201
⁹⁶⁴¹ The growth of English industry and commerce in modern times.
 xvi, 771 p. 2 tables. O. Cambridge: University Press, 1892.
 "List of authorities", p. 704–738.
- Cunningham, William.** 330.942 P600
⁹⁶⁴⁰ The growth of English industry and commerce during the early
 and Middle Ages. Third edition. xv, [1], 714 p. O. Cam-
 bridge: University Press, 1896.
 "List of authorities", p. 651–673.
- Porter, Robert Peel.** 330.97291 P900
¹⁹²⁷² Industrial Cuba. Being a study of present commercial and indus-
 trial conditions, with suggestions as to the opportunities presented
 in the island for American capital, enterprise, and labour. xi, 428 p.
 62 pl. 6 maps. O. New York: G. P. Putnam's Sons, 1899.
 "This volume aims to give a description of Cuba as it appeared to the author when,
 as special commissioner of the United States, he was sent by President McKinley to report
 on its industrial, commercial, and financial condition, soon after the signing of the proto-
 col of peace, Aug. 12, 1898." *Introduction.*
- Wright, Carroll Davidson.** 330.973 P500
¹²⁴⁴⁰ The industrial evolution of the United States. 362 p. il. 1 por.
 4 maps. D. (Chautauqua reading circle literature.) Meadville,
 Penna.: Flood & Vincent, 1897.

331-331.7 LABOR

- Thornton, William Thomas.** 331.02 M800
²⁸⁰¹ On labour: its wrongful claims and rightful dues; its actual pres-
 ent and possible future. Second edition. xii, 499 p. O. Lon-
 don: Macmillan & Co., 1870.

Hobson, John Atkinson.

331.02 P100

⁵⁹²³ Problems of poverty. An inquiry into the industrial condition of the poor. Third edition. vi,[2],232 p. D. [Social questions of to-day.] London: Methuen & Co., 1896.

Contains a list of authorities cited.

Labour annual.

331.052 2

¹⁰²⁶⁰ The Labour annual. The year-book for social and political reformers. . . . Continued from vol. 4. 1898. il. D. London pref. 1897-.

Edited by Joseph Edwards.

Göhre, Paul.

331.0943 P100

¹⁰³⁵⁰ Three months in a workshop. A practical study. Translated from the German by A. B. Carr. With a prefatory note by Professor Richard T. Ely. x,[2],219 p. D. [Social science series, vol. 79.] London: Swan Sonnenschein & Co., 1895.

Dawson, William Harbutt.

331.09494 P700

⁹⁹²⁵ Social Switzerland. Studies of present-day social movements and legislation in the Swiss republic. x,301.[3] p. D. London: Chapman & Hall, 1897.

Ely, Richard Theodore.

331.0973 O602

²⁹⁹⁰ The labor movement in America. xvi,373 p. D. New York: T. Y. Crowell & Co., c. 1886.

With a chapter: Co-operation in America.

Wyckoff, Walter Augustus.

331.0973 P700

¹⁶⁴⁴⁵ The workers. An experiment in reality. . . . [2 vol.] pl. D. New York: C. Scribner's Sons, 1899.

Contents: Vol. 1. The East. Vol. 2. The West.

Hull-House, *Chicago*.

331.09773 P500

¹¹³⁵⁵ Hull-House maps and papers. A presentation of nationalities and wages in a congested district of Chicago, together with comments and essays on problems growing out of the social conditions. By residents of Hull-House, a social settlement, . . . , Chicago, Ill. viii,230 p. 8 pl. 2 maps in pockets, 2 tables. O. [Library of economics and politics, vol. 5.] New York: T. Y. Crowell & Co., c. 1895.

Contents: Addams, J. Prefatory note. 1. Holbrook, A. S. Map notes and comments. 2. Kelley, F. The sweating-system. 3. Kelley, F. & Stevens, A. P. Wage-earning children. 4. Eaton, I. Receipts and expenditures of cloakmakers in Chicago. 5. Zeublin, C. The Chicago Ghetto. 6. Zeman, J. II. The Bohemian people in Chicago. 7. Mastro-Valerio, A. Remarks upon the Italian colony in Chicago. 8. Lathrop, J. C. The Cook County charities. 9. Starr, E. G. Art and labor. 10. Addams, J. The settlement as a factor in the labor movement. Appendix. Hull-House: a social settlement.

- Hadley, Arthur Twining.** 330.2 P601
⁴⁸⁷⁸ Economics; an account of the relations between private property and public welfare. xi,496 p. O. New York: G. P. Putnam's Sons, 1897.
- Davenport, Herbert Joseph.** 330.2 P602
⁴⁹⁸⁴ Outlines of economic theory. xii,[2]381 p. il. O. New York: Macmillan Co., 1896.
- Bullock, Charles Jesse.** 330.2 P701
¹⁸⁷⁸⁶ Introduction to the study of economics. 511 p. D. New York: Silver, Burdett & Co., 1897.
 "Literature," at the end of each chapter. "Bibliography", p. 485-501.
- Say, Léon, & Chailley-Bert, Joseph.** L330.3 P100
¹⁸¹³⁸ Nouveau dictionnaire d'économie politique 2 vol. and supplement. Q. Paris: Guillaumin et C^{ie}, 1893-1897.
 "Bibliographie", at the end of the most important articles and also in the Table analytique, vol. 2, p. 1265-1345.
- Palgrave, Robert Harry Inglis, *editor*.** 330.3 P400
⁵⁹⁸¹ Dictionary of political economy. Vol. 1-. O. London: Macmillan & Co., 1894-.
- Clark, John Bates.** 330.4 C54
⁴¹¹⁹ The philosophy of wealth. Economic principles newly formulated. [Second edition.] xv,236 p. D. Boston: Ginn & Co., 1894, c. 1885.
 Contents: 1. Wealth. 2. Labor and its relation to wealth. 3. The basis of economic law. 4. The elements of social service. 5. The theory of value. 6. The law of supply and demand. 7. The law of distribution. 8. Wages as affected by combinations. 9. The ethics of trade. 10. The principle of coöperation. 11. Non-competitive economics. 12. The economic function of the Church.
- Ely, Richard Theodore.** 330.4 E52
⁹⁶³³ Problems of to-day. A discussion of protective tariffs, taxation, and monopolies. New edition, revised and greatly enlarged. . . . x,[2],296,[2] p. D. New York: T. Y. Crowell & Co., c. 1888.
- Nicholson, Joseph Shield.** 330.4 N52
⁴⁸⁹² Strikes and social problems. viii,238 p. D. London: A. & C. Black, 1896.
 Contents: Strikes and a living wage. Labour combinations and competition. Profit-sharing. The reality of industrial progress. The living capital of the United Kingdom. Capital and labor: their relative strength. A plea for industrial liberty. Political economy and journalism. The reaction in favour of the classical political economy. Old age pensions versus an old commandment. A voyage around Africa. Slavery in Zanzibar.

Keynes, John Neville.

330.7 P001

¹⁴⁹³⁵ The scope and method of political economy. Second edition, revised. xiv,374 p. D. London: Macmillan & Co., 1897, pref. 1890.

Cohn, Gustav.

330.9 0500

³³⁹⁴ A history of political economy. Translated by Dr. Joseph Adna Hill. With an introductory note by Edmund J. James. 142 p. O. Philadelphia 1894.

Published as supplement to the *Annals of the American Academy of Political and Social Science*, March, 1894.

Ingram, John Kells.

330.9 0700

⁴⁵²¹ A history of political economy. With preface by Prof. E. J. James. xv,[2],250 p. D. New York: Macmillan & Co., 1894, c. 1887.

Wells, David Ames.

330.9 0900

³²⁸ Recent economic changes and their effect on the production and distribution of wealth and the well-being of society. xii, 493 p. O. New York: D. Appleton & Co., 1890.

Cossa, Luigi.

330.9 P300

⁸⁰ An introduction to the study of political economy. Revised by the author and translated from the Italian by Louis Dyer. x, [2],587 p. D. London: Macmillan & Co., 1893.

Bonar, James.

330.9 P301

¹²⁸⁸⁶ Philosophy and political economy in some of their historical relations. xvi,410 p. O. [Library of philosophy.] London: Swan Sonnenschein & Co., 1893.

Spahr, Charles Barzillai.

330.9 P601

⁹⁶¹³ An essay on the present distribution of wealth in the United States. Second edition. viii,184 p. D. [Library of economics and politics, vol. 12.] New York: T. Y. Crowell & Co., c. 1896.

Toynbee, Arnold.

330.942 0400

¹⁷⁹¹³ Lectures on the industrial revolution of the 18th century in England. Popular addresses, notes and other fragments. Together with a short memoir by B. Jowett. [Edited by Alfred Milner.] Fifth edition — with appendix. xxxvii,319 p. O. London: Longmans, Green & Co., 1896, pref., 1884.

Contents: Ricardo and the old political economy. The industrial revolution. Popular addresses: 1. Wages and natural law. 2. Industry and democracy. 3. Are radicals socialists? The education of co-operators. The ideal relation of church and state. Notes and jottings.

Ashley, William James.

330.942 O800

¹³⁴⁵⁷ An introduction to English economic history and theory. . . . Third edition. [Vol. 1, part 1]—2. D. London: Longmans, Green, & Co., 1894—1898.

Contents: Part 1. The Middle Ages. Part 2. The end of the Middle Ages.

"Authorities," at the beginning of each chapter.

Price, Langford Lovell [Frederick Rice].

330.942 P001

⁵⁰²⁵ A short history of political economy in England, from Adam Smith to Arnold Toynbee. Second edition. xi,201 p. D. [University extension series.] London: Methuen & Co., 1896, pref. 1890.

Cunningham, William.

330.942 P201

⁹⁶⁴¹ The growth of English industry and commerce in modern times. xvi,771 p. 2 tables. O. Cambridge: University Press, 1892.

"List of authorities", p. 704—738.

Cunningham, William.

330.942 P600

⁹⁶⁴⁰ The growth of English industry and commerce during the early and Middle Ages. Third edition. xv,[1],714 p. O. Cambridge: University Press, 1896.

"List of authorities", p. 651—673.

Porter, Robert Peel.

330.97291 P900

¹⁹²⁷² Industrial Cuba. Being a study of present commercial and industrial conditions, with suggestions as to the opportunities presented in the island for American capital, enterprise, and labour. xi,428 p. 62 pl. 6 maps. O. New York: G. P. Putnam's Sons, 1899.

"This volume aims to give a description of Cuba as it appeared to the author when, as special commissioner of the United States, he was sent by President McKinley to report on its industrial, commercial, and financial condition, soon after the signing of the protocol of peace, Aug. 12, 1898." *Introduction.*

Wright, Carroll Davidson.

330.973 P500

¹²⁴⁴⁰ The industrial evolution of the United States. 362 p. il. 1 por. 4 maps. D. (Chautauqua reading circle literature.) Meadville, Penna.: Flood & Vincent, 1897.

331-331.7 LABOR

Thornton, William Thomas.

331.02 M800

²⁹⁰¹ On labour: its wrongful claims and rightful dues; its actual present and possible future. Second edition. xii,499 p. O. London: Macmillan & Co., 1870.

Hobson, John Atkinson.

331.02 P100

⁵⁹²³ Problems of poverty. An inquiry into the industrial condition of the poor. Third edition. vi,[2],232 p. D. [Social questions of to-day.] London: Methuen & Co., 1896.

Contains a list of authorities cited.

Labour annual.

331.052 2

¹⁰²⁶⁰ The Labour annual. The year-book for social and political reformers. . . . Continued from vol. 4. 1898. il. D. London pref. 1897-.

Edited by Joseph Edwards.

Göhre, Paul.

331.0943 P100

¹⁰³⁵⁰ Three months in a workshop. A practical study. Translated from the German by A. B. Carr. With a prefatory note by Professor Richard T. Ely. x,[2],219 p. D. [Social science series, vol. 79.] London: Swan Sonnenschein & Co., 1895.

Dawson, William Harbutt.

331.09494 P700

⁹⁹²⁸ Social Switzerland. Studies of present-day social movements and legislation in the Swiss republic. x,301,[3] p. D. London: Chapman & Hall, 1897.

Ely, Richard Theodore.

331.0973 0602

²⁹⁹⁰ The labor movement in America. xvi,373 p. D. New York: T. Y. Crowell & Co., c. 1886.

With a chapter: Co-operation in America.

Wyckoff, Walter Augustus.

331.0973 P700

¹⁶⁴⁴⁸ The workers. An experiment in reality. . . . [2 vol.] pl. D. New York: C. Scribner's Sons, 1899.

Contents: Vol. 1. The East. Vol. 2. The West.

Hull-House, *Chicago*.

331.09773 P500

¹¹³⁵⁵ Hull-House maps and papers. A presentation of nationalities and wages in a congested district of Chicago, together with comments and essays on problems growing out of the social conditions. By residents of Hull-House, a social settlement, . . . , Chicago, Ill. viii,230 p. 8 pl. 2 maps in pockets, 2 tables. O. [Library of economics and politics, vol. 5.] New York: T. Y. Crowell & Co., c. 1895.

Contents: Addams, J. Prefatory note. 1. Holbrook, A. S. Map notes and comments. 2. Kelley, F. The sweating-system. 3. Kelley, F. & Stevens, A. P. Wage-earning children. 4. Eaton, I. Receipts and expenditures of cloakmakers in Chicago. 5. Zeublin, C. The Chicago Ghetto. 6. Zeman, J. H. The Bohemian people in Chicago. 7. Mastro-Valerio, A. Remarks upon the Italian colony in Chicago. 8. Lathrop, J. C. The Cook County charities. 9. Starr, E. G. Art and labor. 10. Addams, J. The settlement as a factor in the labor movement. Appendix. Hull-House: a social settlement.

- Barns, William Eddy, *editor*.** 331.1 0600
¹¹⁷¹ The labor problem. Plain questions and practical answers. With an introduction by Richard T. Ely, and special contributions by James A. Waterworth and Fred Woodrow. 330 p. S. New York: Harper & Brothers, 1886.
- Price, Langford Lovell Frederick Rice.** 331.1 0700
⁴⁸⁴⁹ Industrial peace: its advantages, methods, and difficulties. A report of an inquiry made for the Toynbee trustees. With a preface by Alfred Marshall. xxxi, 127 p. 1 por. O. London: Macmillan & Co., 1887.
 Reprinted, with additions, from the *Journal of the Royal Statistical Society*, March, 1887.
- Rogers, James Edwin Thorold.** 331.2 0500
⁶⁴ Work and wages. Being a popular edition (abridged) of "Six centuries of work and wages." (Cobden Club edition.) [6], 206 p. D. (Social science series, vol 1.) London: Swan Sonnenschein & Co., [1890].
- Smart, William.** 331.2 P500
⁵⁵⁸³ Studies in economics. x, [2], 341 p. O. London: Macmillan & Co., 1895.
 Contents: Studies in wages: 1. The standard of comfort. 2. A living wage. 3. The sliding scale. 4. Women's wages. — Studies in currency: 5. A mere commodity. 6. Must prices fall? 7. Overproduction. — Studies in consumption. 8. New wealth and old. 9. The socialising of consumption. — 10. The place of industry in the social organism.
- Willoughby, William Franklin.** 331.25 P800
¹⁹⁰⁹³ Workingmen's insurance. xii, 386 p. D. [Library of economics and politics.] New York: T. Y. Crowell & Co., c. 1898.
 "Bibliographical note," p. 379-386.
- Campbell, Helen, [*born* Stuart].** 331.4 0700
⁹⁷²⁹ Prisoners of poverty. Women wage-workers, their trades and their lives. [2], 257 p. D. Boston: Roberts Brothers, 1895, c. 1887.
- Campbell, Helen, [*born* Stuart].** 331.4 P001
¹²⁰⁶⁴ Prisoners of poverty abroad. [2], 248 p. D. Boston: Roberts Brothers, 1890.
- Campbell, Helen, [*born* Stuart].** 331.4 P300
¹¹⁹⁸² Women wage-earners: their past, their present, and their future. With an introduction by Richard T. Ely. 313 p. D. Boston: Roberts Brothers, 1893.
- Irish peasant.** 331.75 P200
¹⁵⁰⁹⁷ The Irish peasant. A sociological study. Edited from original papers by a Guardian of the Poor. x, 164 p. D. [Social science series, vol. 53.] London: Swan Sonnenschein & Co., 1892.

331.8 LABORING CLASSES

Booth, Charles, *editor*.**331.8 O900**

¹⁰³⁰ Life and labour of the people in London. 9 vol. and appendix. Tables, maps, maps in pocket. O. London: vol. 1, 2, and appendix: Williams & Norgate, 1889-1891; vol. 3-9: Macmillan & Co., 1892-1897.

Contents: Vol. 1. East London. Vol. 2. London continued. Vol. 3. Blocks of buildings, schools, and immigration. Vol. 4. The trades of East London. Vol. 5-8. Population classified by trades. Vol. 9. Comparisons, survey and conclusions.

Vol. 1, 2, and appendix published under the title: Labour and life of the people.

Vol. 1 is in second edition.

Drage, Geoffrey.**331.8 P400**

⁴¹⁶⁵ The unemployed. xiv, 277 p. 6 tables. D. London: Macmillan & Co., 1894.

Hobson, John Atkinson.**331.8 P600**

⁵⁹²⁴ The problem of the unemployed. An enquiry and an economic policy. xvi, 162 p. D. [Social questions of to-day.] London: Methuen & Co., 1896.

Salmon, Lucy Maynard.**331.8 P700**

⁶³¹³ Domestic service. xxiv, 307 p. O. New York: Macmillan Co., 1897.

Contains a bibliography.

Robertson, John Mackinnon.**331.81 P300**

⁵⁰⁰⁶ The eight hours question. vi, [2], 150 p. D. London: Swan Sonnenschein & Co., 1893.

Rae, John.**331.81 P400**

¹⁰⁸⁷⁴ Eight hours for work. xii, 340 p. O. London: Macmillan & Co., 1894.

Wolff, Henry W.**331.82 P700**

⁸⁰⁹⁷ Employers' liability: what ought it to be? [2], 114 p. O. London: P. S. King & Co., 1897.

Birrell, Augustine.**331.82 P701**

¹²⁷⁴⁶ Four lectures on the law of employers' liability at home and abroad. [6], 123 p. D. London: Macmillan & Co., 1897.

White, Alfred Tredway.**331.835 P100**

⁴⁸ Improved dwellings for the working classes, 1879. Better homes for workingmen, 1885. Riverside Buildings, 1890. Various paging, il. 7 pl. O. Brooklyn, N. Y., pref. 1891.

Worthington, T. Locke. 331.835 P300

⁶⁸⁸⁴ The dwellings of the poor and weekly wage-earners in and around towns. With an introduction by G. V. Poore. xvi, 164 p. il. 3 pl. D. [Social science series, vol. 69.] London: Swan Sonnenschein & Co., 1893.

Howell, George. 331.88 P001

⁸⁰⁹ The conflicts of capital and labour historically and economically considered. Being a history and review of the trade unions of Great Britain, Second and revised edition, xxxvi, 536 p. D. London: Macmillan & Co., 1890.

Webb, Sidney, & Webb, Beatrice. 331.88 P400

⁷⁶⁴ The history of trade unionism. xvi, 558 p. 1 map. O. London: Longmans, Green & Co., 1894.

Contains a bibliography of trade unionism, prepared by Robert Alec. Peddie.

Webb, Sidney, & Webb, Beatrice. 331.88 P700

¹³⁵⁰³ Industrial democracy. 2 vol. paged continuously; vol. 1: xxii, 1-452 p.; vol. 2: vii, 453-929 p. table. O. London: Longmans, Green, & Co., 1897.

"A supplement to the bibliography of trade unionism", vol. 2. p. 878-900.

332 MONEY AND BANKING

Jevons, William Stanley. 332.02 N500

⁷²⁸¹ Money and the mechanism of exchange. xviii, 349 p. il. D. (International scientific series, vol. 17.) New York: D. Appleton & Co., 1896, pref. 1875.

Walker, Francis Amasa. 332.02 N700

⁹⁸¹ Money. xv, [2], 550 p. O. New York: H. Holt & Co., 1878.

History. L332.09 P600

³⁰²⁵ A history of banking in all the leading nations; Edited by the editor of The Journal of commerce and commercial bulletin. 4 vol. il. table. Q. New York: Journal of commerce and commercial bulletin, 1896.

Contents: Vol. 1. Sumner, W. G. Banking in the United States. Vol. 2. MacLeod, H. D. Banking in Great Britain. Horn, A. E. Banking in the Russian Empire. Townsend, J. P. Savings-banks in the United States. Vol. 3. Des Essars, P. Banking in the Latin nations. Raffalovich, A. Banks of Alsace-Lorraine after the annexation. Walker, B. E. Banking in Canada. Vol. 4. Wirth, M. Banking in Germany and Austria-Hungary. Borgh, R. van der. Banking in the Netherlands. Jensen, A. Banking in the Scandinavian nations. Soyeda, J. Banking in Japan. Jernigan, T. R. Banking in China.

Nicholson, Joseph Shield. 332.02 P700
¹⁰⁹³³ A treatise on money and Essays on monetary problems. Fourth edition. xviii,448 p. D. London: A. & C. Black, 1897.

Schoenhof, Jacob. 332.09 P701
⁹⁶¹¹ A history of money and prices. Being an inquiry into their relations from the thirteenth century to the present time. Second edition. xvii,352 p. D. [Questions of the day, no. 86.] New York: G. P. Putnam's Sons, 1897.

Bagehot, Walter. 332.0942 N300
³⁰¹⁵ Lombard Street: a description of the money market. viii,359 p. D. New York: Scribner, Armstrong & Co., 1874.

Sumner, William Graham. 332.0973 N400
³⁰⁰⁷ A history of American currency. With chapters on the English bank restriction and Austrian paper money. To which is appended "The bullion report". iv,391 p. 2 tables. O. New York: H. Holt & Co., 1876.

U. S. A. Treasury Department. 332.0973 O600
¹²⁴⁰ Laws of the United States relating to loans and the currency, coinage and banking. [4],xiii,459 p. O. Washington 1886.

White, Horace. 332.0973 P500
¹⁸⁵²⁷ Money and banking. Illustrated by American history. x,488 p. 1 pl. D. Boston, U. S. A.: Ginn & Co., 1896.
 "Bibliography," p. 469-477.

Indianapolis Monetary Convention, 1897. 332.0973 P800
¹²⁵⁸⁵ Report of the Monetary Commission of the Indianapolis Convention of boards of trade, chambers of commerce, commercial clubs, and other similar bodies of the United States. xv,608 p. il. 2 tables. O. Chicago: University of Chicago Press, 1898.

Howarth, William. 332.1 O400
²⁷⁰⁴ Our clearing system and clearing houses. 200 p. il. D. London: E. Wilson, 1884.

Dunbar, Charles Franklin. 332.1 P100
³⁰³⁵ Chapters on the theory and history of banking. vi,199 p. D. New York: G. P. Putnam's Sons, 1891.

Conant, Charles Arthur. 332.1 P602
¹⁹⁰⁹¹ A history of modern banks of issue. With an account of the economic crises of the present century. Third edition. xv, 595 p. O. New York: G. P. Putnam's Sons, 1897.

Walker, Francis Amasa. 332.42 P607
¹⁰⁹⁰⁰ International bimetallism. v,297 p. D. New York: H. Holt & Co., 1896.

Laughlin, James Laurence. 332.42 P701
⁹⁰⁰⁰ The history of bimetallism in the United States. Fourth edition, with new appendices: a study on the fall of silver since 1885, and the experience of the United States with silver to 1893. xviii, 353 p. 20 tables. O. New York: D. Appleton & Co., 1897.

Darwin, Leonard. 332.42 P704
¹⁹⁵⁶⁹ Bimetallism. A summary and examination of the arguments for and against a bimetallic system of currency. viii,341 p. 1 il. D. London: J. Murray, 1897.

Russell, Henry Benajah. 332.44 P800
¹⁶³⁶⁸ International monetary conferences. Their purposes, character, and results with a study of the conditions of currency and finance in Europe and America during intervening periods, and in their relations to international action. x,477 p. O. New York: Harper & Brothers. 1898.

Goschen, George Joachim. 332.45 M400
⁸⁶²⁶ The theory of the foreign exchanges. Ninth thousand. xv,152 p. O. London: E. Wilson, 1896.

Norman, John Henry. 332.45 P701
¹⁷⁹⁸¹ Norman's universal cambist. A ready reckoner of the world's foreign and colonial exchanges of seven monetary and currency intermediaries. . . . Being the second edition of the author's Ready reckoner of the exchanges of gold and silver issued in 1893. xxix,269 p. 3 tables. O. London: E. Wilson, 1897.

Manual. 332.6 I
⁵⁹¹³ The Manual of statistics. . . . Stock exchange hand-book. Railroads, street railways, miscellaneous and industrial companies. Grain and produce; cotton; petroleum; mining; banks; trust companies and insurance. . . . Continued from vol. 9. 1886. maps. O. New York, c. 1887-.
 With slight variations in the title.
 Vol. 10, 13-15, 17-18 missing.

333 LAND

George, Henry. 333.I O300
¹⁰⁶³⁵ Social problems. [2],304 p. D. [Sterling library, vol. 1, no. 5.] New York: Sterling Publishing Co., 1894, c. 1883.

Cox, Harold.**333.1 P200**

⁴¹⁶² Land nationalization. [6], 189 p. D. [Social questions of to-day, no. 8.] London: Methuen & Co., 1892.

334 COOPERATION**Hughes, Thomas, & Neale, Edward Vansittart, editors.****334 2**

⁷⁹⁴⁸ A manual for co-operators. Prepared at the request of the Co-operative Congress, held at Gloucester, in April, 1879; and revised 1888. Published for the Central Co-operative Board, ... , Manchester. xvi, 265 p. O. London: Macmillan & Co., 1888.

Brabrook, Edward William.**334 4**

¹⁹²⁷⁵ Provident societies and industrial welfare. 224 p. D. [Victorian era series.] London: Blackie & Son, 1898.

Co-operative Wholesale Societies.**334.052 1**

⁵⁶⁶⁸ The Co-operative Wholesale Societies, limited, England and Scotland, annual. Continued from 1897. il. pl. por. maps. O. Manchester, pref. 1896-.

Dexter, Seymour.**334.1 1**

⁷⁶¹ A treatise on co-operative savings and loan associations, including building and loan associations, mutual savings and loan associations, accumulating fund associations, co-operative banks, etc. With appendix containing laws, precedents, and forms. viii, 299 p. D. New York: D. Appleton & Co., 1889.

Wolff, Henry W.**334.2 2**

¹⁰³⁰⁸ People's banks: a record of social and economic success. Second edition. Revised and enlarged. xxi, 399 p. O. London: P. S. King & Son, 1896.

Gilman, Nicholas Paine.**334.65 1**

⁸¹¹ Profit sharing between employer and employee. A study in the evolution of the wages system. x, 460 p. O. Boston: Houghton, Mifflin & Co., 1889.

"Bibliography", p. 446-448.

Taylor, Sedley.**334.65 2**

¹²³⁷⁷ Profit-sharing between capital and labour, six essays by Sedley Taylor, to which is added a Memorandum on the industrial partnership at the Whitwood collieries (1865-1874) by Archibald Briggs and the late Henry Curren Briggs, together with remarks on the Memorandum by Sedley Taylor. xiii, 170 p. D. London: Kegan Paul, Trench & Co., 1884.

- Baernreither, J. M.** 334.942 1
⁵⁵⁴⁸ English associations of working men. English edition (enlarged and revised by the author). Translated by Alice Taylor. With a preface by J. M. Ludlow. xv,472 p. O. London: Swan Sonnenschein & Co., 1893.
- Webb, Beatrice, [*born*] Potter.** 334.942 3
¹⁰⁹³² The co-operative movement in Great Britain. [Third edition.] xii,260 p. 2 maps. D. [Social science series, vol. 33.] London: Swan Sonnenschein & Co., 1895.
- Lloyd, Henry Demarest.** 334.942 7
¹⁶⁵³⁰ Labor copartnership. Notes of a visit to co-operative workshops, factories and farms in Great Britain and Ireland, in which employer, employé, and consumer share in ownership, management and results. [6],351 p. 13 pl. D. New York: Harper & Brothers, 1899.

335 SOCIALISM

- Mallock, William Hurrell.** 335.01 O200
³¹³⁷ Social equality: a short study in a missing science. 212 p. D. New York: G. P. Putnam's Sons, 1882.
- Ely, Richard Theodore.** 335.02 P400
⁹⁸³¹ Socialism. An examination of its nature, its strength and its weakness, with suggestions for social reform. Sixth edition. xiii,449 p. 1 table. D. [Library of economics and politics, no. 3.] New York: T. Y. Crowell & Co., c. 1894.
 "Bibliography", p. 399-442.
- Flint, Robert.** 335.02 P500
¹⁰¹⁹⁸ Socialism. 512 p. O. London: Isbister & Co., 1895.
- Morris, William.** 335.04 M83
¹⁰⁵⁶⁴ Signs of change. Seven lectures delivered on various occasions. New edition. viii,[2],202 p. D. London: Longmans, Green, & Co., 1896.
 Contents: How we live and how we might live. Whigs, democrats, and socialists. Feudal England. The hopes of civilisation. The aims of art. Useful work versus useless toil. Dawn of a new epoch.
- Rae, John.** 335.09 P100
¹⁰⁸³⁷ Contemporary socialism. Second edition, revised and enlarged. xii,508 p. O. New York: C. Scribner's Sons, 1896, pref. 1891.
 Chapter 12: The agrarian socialism of Henry George.

- Kirkup, Thomas.** 335.09 P200
¹⁰⁹⁷¹ A history of socialism. vi,[2],301 p. D. London: A. & C. Black, 1892.
- Sombart, Werner.** 335.09 P800
¹⁶²⁸⁷ Socialism and the social movement in the 19th century. With a chronicle of the social movement 1750-1896. Translated by Anson P. Atterbury, with an introduction by John B. Clark. xvii,199 p. D. New York: G. P. Putnam's Sons, 1898.
- Nordhoff, Charles.** 335.29 N400
²⁸¹³ The communistic societies of the United States; from personal visit and observation: 439 p. il. 15 pl. 1 por. 1 map. O. New York: Harper & Brothers, 1875.
 Contains a bibliography of communistic societies in the United States.
- Gronlund, Laurence.** 335.3 P001
²¹⁰⁵ The co-operative commonwealth. An exposition of socialism. Revised and enlarged edition. ix,304 p. il. D. Boston: Lee & Shepard, 1893.
- Zenker, Ernst Victor.** 335.6 P700
¹²⁰¹¹ Anarchism. A criticism and history of the anarchist theory. xiii,323 p. D. New York: G. P. Putnam's Sons, 1897.
- George, Henry.** 335.75 N900
³³⁴⁵ Progress and poverty: an inquiry into the cause of industrial depressions, and of increase of want with increase of wealth. The remedy. xi,[2],viii,512 p. O. New York: D. Appleton & Co., 1882.
- Nitti, Francesco Saverio.** 335.93 P200
⁴⁴⁷⁵ Catholic socialism. Translated from the second Italian edition by Mary Mackintosh, with an introduction by David G. Ritchie. xx, 432 p. O. London: Swan Sonnenschein & Co., 1895.

336 FINANCE

- Cohn, Gustav.** 336.02 O900
¹⁰⁷⁸¹ The science of finance. Translated by T. B. Veblen. xi,800 p. O. [UNIVERSITY OF CHICAGO. Economic studies, no. 1.] Chicago: University of Chicago Press, 1895.
- Bastable, Charles Francis.** 336.02 P500
¹²⁶⁶³ Public finance. Second edition, revised and enlarged. xx,716 p. O. London: Macmillan & Co., 1895.

- Adams, Henry Carter.** 336.02 P800
¹⁸⁴⁴⁸ The science of finance. An investigation of public expenditures and public revenues. xiii,573 p. O. (American science series—advanced course.) New York: H. Holt & Co., 1898.
- Daniels, Winthrop More.** 336.02 P900
¹⁹⁴²⁴ The elements of public finance including the monetary system of the United States. vii,383 p. D. New York: H. Holt & Co., 1899.
- Ely, Richard Theodore.** 336.2 0800
⁹⁸⁹⁴ Taxation in American states and cities. By Richard T. Ely. Assisted by John H. Finley. . . . xx,544 p. 2 tables. D. New York: T. Y. Crowell & Co., c. 1888.
- Adams, Henry Carter.** 336.3 0700
⁶¹⁸¹ Public debts. An essay in the science of finance. xi,407 p. O. New York: D. Appleton & Co., 1895, c. 1887.
- Taussig, Frank William.** 336.73 P300
¹²⁷⁴⁵ The silver situation in the United States. viii,133 p. 1 table. D. [Questions of the day, no. 74.] New York: G. P. Putnam's Sons, 1893.
- Rabbeno, Ugo.** 336.73 P403
¹⁷¹³⁶ The American commercial policy. Three historical essays. Second edition, partly re-written and entirely revised by the author. Translated at the Translations Bureau. xxiv,414 p. O. London: Macmillan & Co., 1895.
- Upton, Jacob Kendrick.** 336.73 P500
⁸⁶⁶ Money in politics. With an introduction by Edward Atkinson. [Second edition.] xxii,292 p. D. Boston: D. Lothrop Co., 1895.
- Gordon, Armistead Churchill.** 336.73 P501
¹²⁷⁴⁹ Congressional currency. An outline of the federal money system. ix,234 p. D. [Questions of the day, no. 85.] New York: G. P. Putnam's Sons, 1895.
- Noyes, Alexander Dana.** 336.73 P800
¹²⁵³⁰ Thirty years of American finance. A short financial history of the government and people of the United States since the Civil War, 1865–1896. xv,277 p. O. New York: G. P. Putnam's Sons, 1898.
- Taussig, Frank William.** 336.73 P801
¹⁷⁹³⁹ The tariff history of the United States. A series of essays. Fourth edition, revised, with additional matter. xi,[2],422 p. D. [Questions of the day, no. 47.] New York: G. P. Putnam's Sons, 1898, c. 1892.

337 PROTECTION AND FREE TRADE

Fawcett, Henry.

337.1 N801

³²⁷⁰ Free trade and protection. An inquiry into the causes which have retarded the general adoption of free trade since its introduction into England. xvi,173 p. D. London: Macmillan & Co., 1878.

338 PRODUCTION AND MANUFACTURE

Dyer, Henry.

338 P500

⁴¹⁶³ The evolution of industry. xv,307 p. D. New York: Macmillan & Co., 1895.

Mulhall, Michael George.

338 P600

⁶⁹⁸⁰ Industries and wealth of nations. xii,451 p. 32 tables. D. Longmans, Green, & Co., 1896.

Elliott, James Rupert.

338.1 P001

⁴⁹⁸⁷ American farms. Their condition and future. Second edition — revised with notes. vi,[2],274 p. D. (Questions of the day, no. 62.) New York: G. P. Putnam's Sons, 1890.

Taylor, R. Whately Cooke.

338.4 P100

²⁶⁷ The modern factory system. vii,476 p. O. London: Kegan Paul, ... & Co., 1891.

Nicholson, Joseph Shield.

338.4 P200

¹⁰⁹²¹ The effects of machinery on wages. New and revised edition. xi,143 p. D. [Social science series, vol. 54.] London: Swan Sonnenschein & Co., 1892.

Hobson, John Atkinson.

338.4 P401

¹⁰³²⁷ The evolution of modern capitalism. A study of machine production. xiv,[2],388 p. il. D. [Contemporary science series, vol. 25.] London: W. Scott, 1894.

Brentano, Lujo.

338.4 P402

¹⁰⁵⁶⁸ Hours and wages in relation to production. Translated by Mrs. William Arnold. viii,143 p. D. [Social science series, vol. 70.] London: Swan Sonnenschein & Co., 1894.

Cook, William W.

338.7 P100

⁹⁷³¹ The corporation problem. The public phases of corporations, their uses, abuses, benefits, dangers, wealth, and power, with a discussion of the social, industrial, economic, and political questions to which they have given rise. vi,262 p. D. New York: G. P. Putnam's Sons, 1893.

Lloyd, Henry Demarest.

338.8 P400

⁵⁶⁶⁰ Wealth against commonwealth. iv,563 p. O. New York: Harper & Brothers, c. 1894.

Halle, Ernst von.

338.8 P600

¹⁰³⁰⁴ Trusts, or industrial combinations and coalitions in the United States. xvi,350 p. 2 tables. D. New York: Macmillan & Co., 1896.

"Bibliography," p. 338-350.

Baker, Charles Whiting.

338.8 P900

²⁰⁰¹⁴ Monopolies and the people. Third edition, revised and enlarged. xxiii,[2],368 p. D. [Questions of the day, no. 59.] New York: G. P. Putnam's Sons, 1899.

339 PAUPERISM .

Booth, Charles.

339 P100

¹⁷¹⁶ Pauperism: a picture; and the endowment of old age: an argument. viii,355 p. D. London: Macmillan & Co., 1892.

Drage, Geoffrey.

339 P500

⁴¹⁶⁴ The problem of the aged poor. xvii,375 p. D. London: A. & C. Black, 1895.

Pretyman, John Radclyffe.

339.942 N600

²³³⁶ Dispauperization. [6],159 p. O. London: Longmans, Green, & Co., 1876.

Booth, William, of the "Salvation Army."

339.942 P001

⁹¹ In darkest England, and the way out. [6],285,xxxi p. O. New York: Funk & Wagnalls, 1890.

Riis, Jacob August.

339.9747 P200

⁴⁴¹ The children of the poor. xi,300 p. il. 1 pl. O. New York: C. Scribner's Sons, 1892.

Booth, Charles.

339.942 P400

¹²⁸⁷⁹ The aged poor in England and Wales. Condition. vi,[2],527 p. O. London: Macmillan & Co., 1894.

340 LAW

340 GENERAL WORKS

American and English encyclopædia of law. 340 0700

⁹¹⁸⁰ The American and English encyclopædia of law. . . . 31 vol. O. Northport, Long Island, N. Y.: E. Thompson Co., 1887-1896.

Vol. 1-20 edited by John Houston Merrill; vol. 21-22, 26, by Charles F. Williams; vol. 23-25, by Charles F. Williams, assisted by Thomas J. Michie; vol. 27-29, by Charles F. Williams, assisted by David S. Garland; index, vol. 30-31, by Thomas J. Michie.

American and English encyclopædia of law. L340 P601

⁹¹⁸² The American and English encyclopædia of law. . . . Second edition. Vol. 1-. Q. Northport, Long Island, N. Y.: E. Thompson Co., 1896-.

Edited by David S. Garland and Lucius P. McGehee, under the supervision of James Cockcroft.

Amos, Sheldon. 340.2 N400

¹⁰⁹²³ The science of law. xx,417 p. 1 table. D. (International scientific series, vol. 10.) New York: D. Appleton & Co., 1874.

341 INTERNATIONAL LAW

Pomeroy, John Norton. 341.02 M700

¹⁰⁹⁶¹ Lectures on international law in time of peace. Edited by Theodore Salisbury Woolsey. xiv,[2],481 p. O. Boston: Houghton, Mifflin & Co., 1886.

Levi, Leone. 341.02 0701

⁶⁰⁹⁹ International law. With materials for a code of international law. xii,346 p. D. (International scientific series, vol. 60.) New York: D. Appleton & Co., 1895, pref. 1887.

Woolsey, Theodore Dwight. 341.02 P100

¹¹³³⁰ Introduction to the study of international law. Designed as an aid in teaching and in historical studies. Sixth edition, revised and enlarged by Theodore Salisbury Woolsey. xix,527 p. O. New York: C. Scribner's Sons, 1897, c. 1891.

Walker, Thomas Alfred. 341.02 P500

⁸¹⁵⁸ A manual of public international law. xxviii,244 p. O. Cambridge: University Press, 1895.

Hall, William Edward.

341.02 P501

¹⁴³¹⁵ A treatise on international law. Fourth edition. xxvii,[1],791 p.
O. Oxford: Clarendon Press, 1895.

Bowen, Herbert Wolcott.

341.02 P600

⁵¹²⁷ International law: a simple statement of its principles. vi,165 p.
O. New York: G. P. Putnam's Sons, 1896.

342 CONSTITUTIONAL LAW

Fiske, John.

342 0001

⁹⁵²⁶ American political ideas viewed from the standpoint of universal history. Three lectures delivered at the Royal Institution of Great Britain in May 1880. 158 p. D. New York: Harper & Brothers, c. 1885.

Boutmy, Emile.

342 0800

⁹⁷²⁸ Studies in constitutional law. France — England — United States. Translated from the second French edition by E. M. Dicey, with an introduction by A. V. Dicey. xiv,[2],183 p. D. London: Macmillan & Co., 1891.

Borgeaud, Charles.

342 P300

⁹⁷³⁴ Adoption and amendment of constitutions in Europe and America. Awarded the Rossi prize by the Law Faculty of Paris. Translated by Charles D. Hazen. With an introduction by John M. Vincent. xxi,353 p. O. New York: Macmillan & Co., 1895.

Stubbs, William.

342.42 N300

²⁷⁰² The constitutional history of England in its origin and development. 3 vol. D. (Clarendon Press series.) Oxford: Clarendon Press, 1875-1878.

Vol. 1 in second edition.

Covers the period to the end of the Middle Ages.

Anson, Sir William Reynell, Bart.

342.42 P200

⁹⁵⁹⁶ The law and custom of the constitution. . . . Second edition. 2 vol. O. Oxford: Clarendon Press, 1892-1896.

Macy, Jesse.

342.42 P700

⁵¹⁰¹ The English constitution. A commentary on its nature and growth. xxii,534 p. O. New York: Macmillan Co., 1897.

Macy, Jesse.

342.42 P700

⁸¹⁰¹ The English constitution. A commentary on its nature and growth. xxii,534 p. O. New York: Macmillan Co., 1897.

Langmead, Thomas Pitt Taswell-

342.429 N900

¹⁵⁴⁰¹ English constitutional history. From the Teutonic conquest to the present time. Fourth edition, revised throughout, with notes and appendices, by C. H. E. Carmichael. xli,883 p. O. London: Stevens & Haynes, 1890.

"List of authors and editions cited by the editor", p. xxxiii-xli.

Adams, Sir Francis Ottiwell, & Cunningham, C. D.

342.494 P400

¹⁰⁹⁰² The Swiss Confederation. xx,289 p. 1 map. O. New York: Macmillan & Co., 1894.

Madison, James.

342.73 F1

¹⁰¹⁶⁶ Journal of the Federal Convention. Reprinted from the edition of 1840, which was published under direction of the United States Government from the original manuscripts. A complete index specially adapted to this edition is added. Edited by E. H. Scott. 805 p. O. Chicago: Albert, Scott & Co., 1895.

Holst, Hermann von.

342.73 N300

⁵⁸⁶⁸ The constitutional and political history of the United States. Translated from the German by John J. Lalor . . . [8 vol.] O. Chicago: Callaghan & Co., 1876-1892.

Vol. 8 consists of an index and list of authorities, by Ira Hutchinson Brainerd.

Vol. 1 translated in co-operation with Alfred B. Mason; vol. 3, with Paul Shorey.

Ford, Worthington Chauncey.

342.73 O300

⁹⁷¹³ The American citizen's manual. 2 vol. in 1. map. D. (Questions of the day, no. 5, 6.) New York: G. P. Putnam's Sons, 1896, c. 1883.

Pomeroy, John Norton.

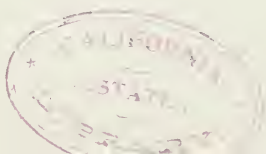
342.73 O600

¹⁰⁹⁶⁰ An introduction to the constitutional law of the United States. Especially designed for students, general and professional. Tenth edition, revised and enlarged, by Edmund H. Bennett. xxxviii, 709 p. O. Boston: Houghton, Mifflin & Co., 1888.

Hare, John Innes Clark.

342.73 O904

¹⁰⁹⁶² American constitutional law. 2 vol. paged continuously; vol. 1: lxxxii,[2],1-652 p.; vol. 2: [2],653-1400 p. O. Boston: Little, Brown, & Co., 1889.



- Fiske, John.** 342.73 P002
⁹⁷²² Civil government in the United States considered with some reference to its origins. xxx,360 p. il. 1 map. D. Boston: Houghton, Mifflin & Co., c. 1890.
 "Bibliographical note", at the end of each chapter.
- Cooley, Thomas McIntyre.** 342.73 P003
¹⁰⁰⁹² A treatise on the constitutional limitations which rest upon the legislative power of the states of the American Union. Sixth edition, with large additions, giving the results of the recent cases, by Alexis C. Angell. xcviii,885 p. O. Boston: Little, Brown & Co., 1890.
- Black, Henry Campbell.** 342.73 P701
⁸⁴⁹³ Handbook of American constitutional law. Second edition. [Hornbook series, vol. 5.] xxiv,716 p. O. St. Paul, Minn.: West Publishing Co., 1897.
- Schouler, James.** 342.73 P702
⁹²³⁵ Constitutional studies, state and federal. xii,332 p. D. New York: Dodd, Mead & Co., 1897.
 Contents: Part 1. Early charters and constitutions. Part 2. The federal union. Part 3. State constitutions since 1789.
- Jameson, John Alexander.** 342.732 0700
¹⁰⁹⁵⁴ A treatise on constitutional conventions; their history, powers, and modes of proceeding. Fourth edition, revised, ... , and enlarged. xxix,684 p. O. Chicago: Callaghan & Co., 1887.
- Bancroft, George.** 342.739 0400
⁹⁵⁹⁵ History of the formation of the constitution of the United States of America. xxii,495 p. O. New York: D. Appleton & Co., 1896, c. 1884.

343 CRIMINAL LAW

- Farrer, James Anson.** 343 0001
¹⁴⁴³⁵ Crimes and punishments. Including a new translation of Beccaria's 'Dei delitti e delle pene.' x,[2],251 p. D. London: Chatto & Windus, 1880.
 Contents: 1. Beccaria's life and character. 2. The general influence of Beccaria on legislation. 3. The influence of Beccaria in England. 4. The problems of penology. Beccaria's 'Crimes and punishments,' translated.

345-347 AMERICAN AND ENGLISH LAW

Illinois. General Assembly.**L345.2243 P600**

- ¹⁰⁹⁶⁵ Annotated statutes of the state of Illinois in force May 1, 1896. Embracing the revision of 1874, and all general statutes enacted since such revision, so far as in force, with digested notes of decisions construing or illustrating their provisions by the courts of Illinois and of the United States, and historical notes comparing the present statutes with previous legislation. Edited by Merritt Starr and Russell H. Curtis. Second edition. 3 vol. pagged continuously; vol. 1: xxv, 1-1422 p.; vol. 2: iii, 1423-2842 p.; vol. 3: iv, 2845-4447 p. Q. Chicago: Callaghan & Co., 1896.

Illinois. General Assembly.**L345.2243 P700**

- ¹⁰⁹⁶³ The revised statutes of the state of Illinois, 1897. Comprising the "Revised statutes of 1874," and all amendments thereto, together with the general acts ... , being all the general statutes of the state in force on the first day of December, 1897. Compiled and edited by Harvey B. Hurd. xv, 1830 p. 1 por. Q. Chicago: Chicago Legal News Co., 1897.

Alger, Arthur Martineau.**347.1 P700**

- ¹²⁰⁹⁶ A treatise on the law in relation to promoters and the promotion of corporations. xxviii, 302 p. O. Boston: Little, Brown, & Co., 1897.

Parsons, Theophilus.**347.7 P300**

- ¹⁵²⁶¹ Laws of business for all the states and territories of the Union and the Dominion of Canada. With forms and directions for all transactions and abstracts of the laws of all the states and territories on various topics. New revised edition. 864, [4] p. O. Syracuse, N. Y.: W. Gill, 1897.

350-354 ADMINISTRATION (MUNICIPAL AND OTHER)

Civil service question book.**351.3 O800**

- ¹²⁰³³ The civil service question book. ... : intended to be a sufficient review in all the subjects upon which questions are asked in the civil service examinations. With full answers and directions as to applications for examination and position. Fourth edition. 279 p. D. (School bulletin publications.) Syracuse, N. Y.: C. W. Bardeen, c. 1888.

- Eaton, Dorman Bridgman.** 351.6 N900
⁵⁹⁶ Civil service in Great Britain. A history of abuses and reforms and their bearing upon American politics. [2],xii,[2],469 p. O. New York: Harper & Brothers, 1880.
- Goodnow, Frank Johnson.** 352 3
⁵⁸⁴³ Municipal problems. xiii,321 p. D. New York: Macmillan Co., 1897.
- Wilcox, Delos Franklin.** 352 5
¹⁰⁸⁷³ The study of city government. An outline of the problems of municipal functions, control and organization. xiv,268 p. D. New York: Macmillan Co., 1897.
- Conference for Good City Government.** 352 7
¹²⁰⁵² Proceedings of the ... Conference for Good City Government Continued from [no. 1]. 1894. O. Philadelphia 1894-.
 No. 1-4 published under the title: Proceedings of the National Conference for Good City Government.
 No. 4 is called on the title-page: Proceedings of the Third National Conference
- Municipal affairs.** 352 8
¹³⁰¹² Municipal affairs. A quarterly magazine devoted to the consideration of city problems from the standpoint of the taxpayer and citizen. Continued from vol. 1. [March,] 1897. O. New York 1897-.
- Eaton, Dorman Bridgman.** 352 11
¹⁸⁶⁰⁴ The government of municipalities. x,498,14,14 p. O. New York: Macmillan Co., 1899.
- Shaw, Albert.** 352.04 1
¹¹⁹³⁰ Municipal government in continental Europe. xii,[4],505 p. O. London: T. Fisher Unwin, 1897.
- Bell, Sir James, Bart., & Paton, James.** L352.041 G46
⁵⁶⁶⁷ Glasgow, its municipal organization and administration. xxiii, 426 p. il. 1 pl. 2 maps. sq.Q. Glasgow: J. MacLehose & Sons, 1896.
- Shaw, Albert.** 352.042 2
¹⁰⁴⁵ Municipal government in Great Britain. viii,[4],385 p. O. New York: Century Co., 1895.
- Webb, Sidney.** 352.042 L842
¹²³³⁰ The London programme. viii,218 p. D. [Social science series, vol. 39.] London: Swan Sonnenschein & Co., 1891.

Tolman, William Howe.

352.073 2

⁴⁴⁸⁰ The text-book of the new reformation. Municipal reform movements in the United States. With an introductory chapter by the Rev. Charles H. Parkhurst. 219 p. D. New York: F. H. Revell Co., 1895.

Devlin, Thomas Clarke.

352.073 3

⁴⁹⁹⁴ Municipal reform in the United States. ix,174 p. D. [Questions of the day. no. 90.] New York: G. P. Putnam's Sons, 1896.

Conkling, Alfred Ronald.

352.073 4

⁶⁰⁶¹ City government in the United States. xii,227 p. D. New York: D. Appleton & Co., 1895.

Goodnow, Frank Johnson.

352.073 5

⁹⁷⁴⁶ Municipal home rule. A study in administration. xxiv,283 p. D. New York: Macmillan Co., 1897.

Durand, Edward Dana.

352.0747 N4211

¹²⁸⁰⁶ The finances of New York city. xii,397 p. D. New York: Macmillan Co., 1898.

Chicago. *Civil Service Commission.*

352.0773 C43

¹³⁷⁹ Annual reports of the Civil Service Commissioners of the city of Chicago. Continued from vol. 1. O. Chicago, Ills., 1896-.

Horr, Norton Townshend, & Bemis, Alton A.

352.2 1

¹⁰⁹⁵⁷ A treatise on the power to enact, passage, validity and enforcement of municipal police ordinances. With appendix of forms and references to all the decided cases on the subject in the United States, England and Canada. xxxi,312 p. O. Cincinnati: R. Clarke Co., 1895, c. 1887.

Bemis, Edward Webster, *editor.*

352.5 P900

¹⁷⁷¹⁶ Municipal monopolies. A collection of papers by American economists and specialists. ix,691 p. 3 tables. D. [Library of economics and politics.] New York: T. Crowell & Co., c. 1899.

U. S. A. *Department of the Interior. Census Office.*

A353 3037

¹⁸⁵⁷⁵ Statistical atlas of the United States, based upon results of the eleventh census. By Henry Gannett. 69 p. il. 54 maps, 9 tables. sq.F⁶. Washington 1898.

U. S. A. *Civil Service Commission.*

353 P900

¹⁹⁸¹⁶ Manual of examinations for the classified civil service of the United States. (Revised to January 1, 1899.) 118 p. 2 tables. O. Washington 1899.

Cushing, Marshall.**353.4 P300**

- ¹²⁴⁴⁷ The story of our post office. The greatest government department in all its phases. [4], 1034 p. il. 1 por. O. Boston, Mass.: A. M. Thayer & Co., 1893.

Chicago Post Office. Bureau of Publication.**353.4 P800**

- ¹³⁰⁰⁶ Postal guide prepared by the Chicago Post Office (Bureau of Publication) containing revised and corrected postal information for the business public with time charts, scheme and schedules showing arrival, departure, delivery and collection of mails. [Number 5, March, 1898.] 158 p. O. [Chicago] 1898.

U. S. A. Civil Service Commission.**353.8917 P701**

- ⁵⁹⁶⁰ Schedule of examinations, and instructions to applicants. Classified civil service. (Revised to January 1, 1897.) . . . 102 p. 4 pl. 1 facsim. 1 table. O. Washington 1897.

Stockholm. K. Svenska Vetenskaps-Akademien.**354.485 1**

- ¹¹⁷¹⁵ Sveriges statskalender Utgifven efter Kongl. Maj:ts nådigste förordnande af dess Vetenskaps-Akademi. Bihang: Utdrag ur Norges statskalender. Continued from 1898. O. Stockholm 1897-.

355-359 MILITARY AND NAVAL SCIENCE**[Bigelow, John, Jr.]****355.02 P1**

- ⁷⁵⁷¹ Military science. 194 p. il. 8 maps, 3 tables. O. [Boston 189-.]
Notes to twenty-five lectures; printed by the Massachusetts Institute of Technology for the use of its students.
No title-page.
Lectures 1, 4, 12, 19, lacking.

Farrow, Edward S.**L355.03 O400**

- ²⁴⁹³ Farrow's Military encyclopedia. A dictionary of military knowledge. 3 vol. il. pl. maps. Q. New York: published by the author, 1885.

Oman, Charles [William Chadwick].**L355.09 P800**

- ¹⁷⁷⁵⁰ A history of the art of war. The Middle Ages from the fourth to the fourteenth century. xv, 667 p. 7 pl. 17 maps. O. London: Methuen & Co., 1898.

Naval encyclopædia.**L359.03 0001**

¹⁶²⁶⁷ A naval encyclopædia: comprising a dictionary of nautical words and phrases; biographical notices, and records of naval officers; special articles on naval art and science, written ... by officers and others of recognized authority in the branches treated by them. Together with descriptions of the principal naval stations and seaports of the world. 1017 p. il. Q. Philadelphia: L. R. Hamersly & Co., 1881.

Naval annual.**L359.052 1**

¹²⁶⁵⁰ The Naval annual. . . . Continued from [vol. 12]. 1898. il. pl. maps, tables. Q. Portsmouth 1898-.
 Edited by T. A. Brassey.

Callwell, Charles Edward.**359.09 P700**

¹²⁸¹⁶ The effect of maritime command on land campaigns since Waterloo. xv,[1],380 p. 7 maps. D. Edinburgh: W. Blackwood & Sons, 1897.

Mahan, Alfred Thayer.**359.0973 P700**

¹⁰¹¹¹ The interest of America in sea power, present and future. vi,[4], 314 p. 2 maps. O. Boston: Little, Brown & Co., 1897.

Spears, John Randolph.**359.0973 P701**

¹⁰⁸⁶¹ The history of our navy from its origin to the present day. 1775-1897. 4 vol. il. pl. por. O. New York: C. Scribner's Sons, 1897.

360 CHARITIES AND CORRECTIONS**Warner, Amos Griswold.****360.973 P400**

¹⁰⁶⁵⁹ American charities. A study in philanthropy and economics. Third thousand. viii,430 p. il. 1 map, 6 tables. D. [Library of economics and politics, vol. 4.] New York: T. Y. Crowell & Co., c. 1894.

Tolman, William Howe, & Hull, William I.**360.9747 P400**

⁵⁸⁵⁰ Handbook of sociological information, with especial reference to New York City. Prepared for the City Vigilance League, New York City. xi,257 p. O. New York 1894.
 Contains a bibliography of sociology.

Visher, John.**360.9773 P700**

¹¹⁰⁴³ Hand-book of charities [of Chicago]. Third edition, revised and enlarged. 253,[9] p. il. 1 pl. O. Chicago: C. H. Kerr & Co., 1897.

- London. Charity Organisation Society.** 362.1 P300
¹²⁵⁵² The epileptic and crippled child and adult. A report on the present condition of these classes of afflicted persons, with suggestions for their better education and employment. xii,159 p. D. (Charity organisation series.) London: Swan Sonnenschein & Co., 1893.
- Letchworth, William Pryer.** 362.2 O900
²⁵¹² The insane in foreign countries. xii,374 p. 19 pl. 2 maps. Q. New York: G. P. Putnam's Sons, 1889.
- Chance, William.** 362.7 P700
¹²⁷⁷⁵ Children under the Poor Law: their education, training, and after-care. Together with a criticism of the report of the Departmental Committee on Metropolitan Poor Law Schools. xii,443 p. O. London: Swan Sonnenschein & Co., 1897.
- Du Cane, Sir Edmund Frederick.** 364 O500
¹⁰⁵⁴⁵ The punishment and prevention of crime. vi,[2],235 p. D. [English citizen.] London: Macmillan & Co., 1885.
- Ferri, Enrico.** 364 P300
⁶¹¹⁰ Criminal sociology. xx,284 p. D. [Criminology series, vol. 2.] New York: D. Appleton & Co., 1896.
- Wines, Frederick Howard.** 364 P500
¹⁰⁹⁷⁵ Punishment and reformation. An historical sketch of the rise of the penitentiary system. xi,339 p. il. 6 pl. [Library of economics and politics, vol. 6.] New York: T. Y. Crowell & Co., c. 1895.
- Morrison, William Douglas.** 364 P600
⁶⁰³⁵ Juvenile offenders. xx,317 p. O. [Criminology series, no. 3.] London: T. Fisher Unwin, 1896.
- Winter, Alexander.** 365.9747 E48
¹²⁵⁵⁵ The New York State Reformatory in Elmira. Original English edition published simultaneously with the German edition. With a preface by Havelock Ellis. x,172 p. D. [Social science series, vol. 19.] London: Swan Sonnenschein & Co., 1891.
- Coit, Stanton.** 367 P200
¹⁰⁶⁷⁶ Neighbourhood guilds. An instrument of social reform. Second edition. x,150 p. D. [Social science series, vol. 34.] London: Swan Sonnenschein & Co., 1892.

370 EDUCATION

370.1-370.9 GENERAL WORKS

- Rosenkranz, Johann Karl Friedrich.** 370.1 K800
³⁴⁵² The philosophy of education. Translated from the German by Anna C. Brackett. Second edition, revised, and accompanied with commentary and analysis. xxviii,286 p. D. (International education series, vol. 1.) New York: D. Appleton & Co., 1886.
- Spencer, Herbert.** 370.1 M001
⁶⁷²⁴ Education: intellectual, moral, and physical. 283 p. O. New York: D. Appleton & Co., 1896, c. 1860.
- Parker, Francis Wayland.** 370.1 P401
¹²⁵¹⁴ Talks on pedagogics. An outline of the theory of concentration. [2],xvi,491 p. 1 por. D. (Kellogg's teachers' library, vol. 1.) New York: E. L. Kellogg & Co., c. 1894.
- Herbart, Johann Friedrich.** 370.1 P700
⁷⁶⁰⁹ The science of education. Its general principles deduced from its aim and the æsthetic revelation of the world. Translated from the German with a biographical introduction by Henry M. and Emmie Felkin. And a preface by Oscar Browning. Second edition. xx,286 p. D. London: Swan Sonnenschein & Co., 1897.
- Fitch, Joshua Girling.** 370.2 O100
⁹⁷⁸ Lectures on teaching, delivered in the University of Cambridge during the Lent term, 1880. New edition. xvii,[1],436 p. D. Cambridge: University Press, 1883.
- Tate, Thomas.** 370.2 O500
¹⁰³⁶⁹ The philosophy of education; or, The principles and practice of teaching. With an introduction by Edward E. Sheib. 331 p. il. S. New York: E. L. Kellogg & Co., 1885.
- Rein, Wilhelm.** 370.2 P200
⁴³¹⁸ Outlines of pedagogics. Translated by C. C. and Ida J. Van Liew, with additional notes by the former. 232 p. D. (School bulletin publications.) Syracuse, N. Y.: C. W. Bardeen, 1895.
 Contains a bibliography of pedagogics.
- Laurie, Simon Somerville.** 370.2 P202
⁸⁴⁵¹ Institutes of education, comprising an introduction to rational psychology. . . . ix,272 p. D. Edinburgh: J. Thin, 1892.

Holman, Henry. 370.2 P600
¹¹³⁶⁷ Education. An introduction to its principles and their psychological foundations. xii,536 p. D. New York: Dodd, Mead & Co., 1896.

Scott, Harriet M. 370.2 P700
⁷⁸⁰³ Organic education. A manual for teachers in primary and grammar grades. By Harriet M. Scott, assisted by Gertrude Buck. vii,[1],291,[1] p. D. Ann Arbor, Mich.: J. V. Sheehan, 1897.
 "Books of reference," p. 281-289.

Barnett, Percy Arthur, *editor*. 370.2 P701
⁸⁰¹⁰ Teaching and organisation. With special reference to secondary schools. A manual of practice. xix,419 p. il. D. London: Longmans, Green & Co., 1897.

Contents: 1. Barnett, P. A. The criteria in education. 2. Pollard, A. T. Organisation and curricula. 3. Weldon, E. A. The kindergarten. 4. Burrell, A. Reading and speaking. 5. Morris, I. H. Writing. 6. —. Drawing. 7. Wormell, R. Mathematics. 8. Abbott, E. A. On the teaching of English grammar. 9. Barnett, P. A. English literature. 10. Somervell, R. Modern history. 11. Withers, H. L. Ancient history. 12. Gonner, E. C. K. Geography. 13. Lyttelton, E. Classical teaching. 14. Miall, L. C. The teaching of science. 15. Storr, F. The teaching of modern languages. 16. McNaught, W. G. Vocal music. 17. Sidgwick, A. Form management. 18. Buckle, G. E. Ineffectiveness in teaching. 19. Glazebrook, M. G. Specialisation. 20. Martin, A. T. School libraries. 21. Dukes, C. Health and physical culture. 22. Hill, W. K. Furniture, apparatus and appliances. 23. Sandford, M. E. Organisation and curricula in girls' schools.

Kiddle, Henry, & Schem, Alexander J., *editors*. L370.3 O300
⁶²¹⁰ The Cyclopædia of education: a dictionary of information for the use of teachers, school officers, parents, and others. Third edition. With appendix. [2],v,868,xvii,[10] p. Q. New York: E. Steiger & Co., 1883, c. 1876.

Dictionnaire. L370.3 O700
⁶⁶⁴² Dictionnaire de pédagogie et d'instruction primaire. Publié sous la direction de F. Buisson, avec le concours d'un grand nombre de collaborateurs. 2 parts and supplement in 4 vol. il. Q. Paris: Hachette & C^{ie}, 1887-1888.

Sonnenschein's cyclopædia of education. 370.3 P200
⁵⁹³⁹ Sonnenschein's cyclopædia of education. A handbook of reference on all subjects connected with education (its history, theory, and practice), ... Edited by Alfred Ewen Fletcher. Third edition. [6],562 p. O. London: Swan Sonnenschein & Co., 1892.

Contains also A select and systematic bibliography of pedagogy by William Swan Sonnenschein.

Rein, Wilhelm. L370.3 P500
⁵⁹⁶⁶ Encyklopädisches Handbuch der Pädagogik. Vol. 1-. Q. Langensalza: H. Beyer & Söhne, 1895-.

Eliot, Charles William. 370.4 E42
¹⁶⁵¹² Educational reform. Essays and addresses. ix,418 p. O. New York: Century Co., 1898.

Contents: 1. Inaugural address as president of Harvard College. 2. Address at the inauguration of Daniel C. Gilman. 3. Teachers' tenure of office. 4. On the education of ministers. 5. What is a liberal education? 6. Liberty in education. 7. Can school programmes be shortened and enriched? 8. An average Massachusetts grammar school. 9. The gap between common schools and colleges. 10. The aims of the higher education. 11. Shortening and enriching the grammar-school course. 12. Undesirable and desirable uniformity in schools. 13. The grammar school of the future. 14. The unity of educational reform. 15. Medical education of the future. 16. A wider range of electives in college admission requirements. 17. An urban university. 18. The function of education in democratic society.

Locke, John. 370.4 L79
¹⁰⁷⁵³ Some thoughts concerning education. With introduction and notes by the Rev. R. H. Quick. Second edition. . . . lxiv,240 p. S. (Pitt Press series.) Cambridge: University Press, 1889, pref. 1884.

Payne, Joseph. 1808-1876. 370.4 P29
³³¹³ Lectures on the science and art of education. With other lectures and essays. Reading Club edition. . . . By C. W. Bardeen. 281 p. D. (School bulletin publications.) Syracuse, N. Y.: C. W. Bardeen, 1885.

Compayré, Gabriel. 370.9 O300
⁵⁹³⁸ The history of pedagogy. Translated, with an introduction, notes, and an index, by W. H. Payne. Third edition. xxvi,598 p. D. London: Swan Sonnenschein & Co., 1895.

Painter, Franklin Verzellius Newton. 370.9 O600
⁶¹³⁸ A history of education. xix,343 p. D. (International education series, vol. 2.) New York: D. Appleton & Co., 1896, c. 1886.

Quick, Robert Hebert. 370.92 Q41
⁶⁷⁴⁷ Essays on educational reformers. Only authorized edition of the work as rewritten in 1890. xxxiv,568 p. D. (International education series, vol. 17.) New York: D. Appleton & Co., 1896, pref. 1890.

Fitch, Sir Joshua [Girling]. 370.9204 F55
⁷⁸⁴⁴ Thomas and Matthew Arnold and their influence on English education. ix,277 p. D. [Great educators.] New York: C. Scribner's Sons, 1897.

- Laurie, Simon Somerville.** 370.9218 L37
⁶⁴²⁵ John Amos Comenius, Bishop of the Moravians: his life and educational works. Reading-circle edition, with a new bibliography 272 p. il. 1 pl. D. (School bulletin publications.) Syracuse, N. Y.: C. W. Bardeen, 1892.
- Hughes, Thomas, S. J.** 370.9252 H87
¹³¹⁵⁸ Loyola and the educational system of the Jesuits. ix,302 p. D. (Great educators.) New York: C. Scribner's Sons, 1892.
- Hinsdale, Burke Aaron.** 370.9254 H59
¹²⁹⁶⁸ Horace Mann and the common school revival in the United States. vii,326 p. D. (Great educators.) New York: C. Scribner's Sons, 1898.
- Guimps, Roger de.** 370.9267 G94
³³⁹³ Pestalozzi: his life and work. Authorized translation from the second French edition, by J. Russell. . . . xix,[3],438 p. D. (International education series, vol. 14.) New York: D. Appleton & Co., 1890.
- Davidson, Thomas.** 370.9275 D28
¹²⁹⁶¹ Rousseau and education according to nature. vii,253 p. D. (Great educators.) New York: C. Scribner's Sons, 1898.
- Davidson, Thomas.** 370.938 P400
⁶¹⁰⁵ The education of the Greek people and its influence on civilization. xiv,[4],229 p. D. (International education series, vol. 28.) New York: D. Appleton & Co., 1896.
- Sharpless, Isaac.** 370.942 P200
⁶¹⁰⁷ English education in the elementary and secondary schools. xiii,193 p. D. (International education series, vol. 22.) New York: D. Appleton & Co., 1892.
- American college.** 370.973 I
¹⁴⁰⁷⁸ American college and public school directory. Continued from vol. 21. 1898. O. St. Louis, Mo., [1898-].

371 METHODS AND MANAGEMENT

- Klemm, Louis R.** 371 O800
¹⁰⁵⁷⁵ European schools, or what I saw in the schools of Germany, France, Austria, and Switzerland. xvi,419 p. 523 il. D. (International education series, vol. 12.) New York: D. Appleton & Co., 1890.

Baldwin, Joseph. 371 P700

⁶¹⁰⁸ School management and school methods. xix,395 p. il. D. (International education series, vol. 40.) New York: D. Appleton & Co., 1897.

Salmon, David. 371 P801

¹⁷⁶⁶⁴ The art of teaching. [4],289 p. D. London: Longmans, Green, & Co., 1898.

Bardeen, Charles William. 371.1 P700

¹¹⁹⁶⁷ Teaching as a business. Four addresses. 154 p. D. (School bulletin publications.) Syracuse, N. Y.: C. W. Bardeen, 1897.

Greenwood, James M. 371.3 0700

⁶⁰⁶² Principles of education practically applied. [6],192 p. D. New York: D. Appleton & Co., 1894, c. 1887.

Hackwood, Frederick William. 371.3 P600

⁹³⁸⁰ The practical method of class management. A ready guide of useful hints to young class teachers. 90 p. D. London: G. Philip & Son, 1896.

McMurry, Charles Alexander, & McMurry, Frank M. 371.32 P700

⁹⁹⁷¹ The method of the recitation. 319 p. D. Bloomington, Ill.: Public School Publishing Co., 1897.

MacArthur, Arthur. 371.42 0400

⁶⁷²² Education in its relation to manual industry. xv,393 p. D. New York: D. Appleton & Co., 1892, c. 1884.

Salomon, Otto. 371.42 P400

⁸⁵¹⁹ The theory of educational sloyd. The only authorised edition of the lectures of Otto Salomon. Revised and edited for English and American students by an inspector of schools. Together with a résumé of the history of manual training, and a biography of Herr Salomon. Second edition. xii,150 p. 1 pl. 1 por. D. London: G. Philip & Son, [1894].

De Garmo, Charles. 371.44 P500

⁵⁵⁹⁹ Herbart and the Herbartians. ix,268 p. D. (Great educators.) New York: C. Scribner's Sons, 1896.

Contains a bibliography of Herbartian literature.

Herbart, [Johann Friedrich]. 371.44 P600

⁶¹⁵⁹ Herbart's ABC of sense-perception and minor pedagogical works. Translated, with introduction, notes, and commentary, by William J. Eckoff. xxxi,288 p. 10 il. 2 tables. D. (International education series, vol. 36.) New York: D. Appleton & Co., 1896.

- Hughes, James Laughlin.** 371.46 P700
⁷⁵⁶⁸ Froebel's educational laws for all teachers. xiii,296 p. D. (International education series.) New York: D. Appleton & Co., 1897.
- Posse, Nils.** 371.73 P001
²⁷⁵ The Swedish system of educational gymnastics. Second edition, enlarged. [10],284 p. 264 il. O. Boston: Lee & Shepard, 1891.

372 PRIMARY EDUCATION. CHILD STUDY

- Parker, Francis Wayland.** 372 O300
¹⁷¹⁷ Talks on teaching. Reported by Lelia E. Patridge. Fifteenth edition. . . . 181 p. D. (Kellogg's teachers' library, vol. 3.) New York: E. L. Kellogg & Co., 1896.
- Wiggin, Kate, [born] Douglas, [afterwards Riggs].** 372 P200
¹⁷⁸¹² Children's rights. A book of nursery logic. [Tenth thousand.] [6],235 p. D. Boston: Houghton, Mifflin & Co., 1898, c. 1892.
 Three chapters written by Nora A. Smith.
- Warner, Francis.** 372 P703
¹⁷⁷⁹⁵ The study of children and their school training. xix,264 p. 19 il. D. New York: Macmillan Co., 1898.
- Smith, Nora Archibald.** 372 P802
¹⁶⁵³³ The children of the future. [6],165 p. D. Boston: Houghton, Mifflin & Co., 1898.
- Froebel, Friedrich.** 372.2 H600
⁶¹³⁶ The education of man. Translated from the German and annotated by W. N. Hailmann. xxv,332 p. D. (International education series, vol. 5.) New York: D. Appleton & Co., 1896, c. 1887.
- Froebel, [Friedrich].** 372.2 O700
⁵⁵⁷³ Froebel's letters on the kindergarten. Translated from the German edition of 1887 by Hermann Poesche. Edited and annotated by Emilie Michaelis and H. Keatley Moore. Authorized American edition. x,[2],331 p. D. Syracuse, N. Y.: C. W. Bardeen, 1896.
- Harrison, Elizabeth.** 372.2 P001
¹²⁸⁰⁸ A study of child-nature from the kindergarten standpoint. Sixteenth edition. 207 p. D. [Chicago:] Chicago Kindergarten College, 1895, c. 1890.

Wiggin, Kate, [born] Douglas, [afterwards Riggs], 372.2 P500
 5131 & **Smith, Nora Archibald.**

Froebel's gifts. xi,[2],202 p. D. (Republic of childhood, vol. 1.) Boston: Houghton, Mifflin & Co., 1896.

Willard, Eleanor Withey, editor. 372.2 P501

6773 Children's singing games. [Second edition.] 67 p. il. sq.O.
 London: F. A. Stokes Co., c. 1895.

Froebel, Friedrich. 372.2 P502

17891 The songs and music of Friedrich Froebel's Mother play (Mutter und Kose Lieder). Songs newly translated and furnished with new music. Prepared and arranged by Susan E. Blow. xv, 272 p. il. D. (International education series, vol. 32.) New York: D. Appleton & Co., 1898.

Wiggin, Kate, [born] Douglas, [afterwards Riggs], 372.2 P600
 5132 & **Smith, Nora Archibald.**

Froebel's occupations. [4],313 p. D. (Republic of childhood, vol. 2.) Boston: Houghton, Mifflin & Co., 1897.

Major, Henry. 372.3 P400

5413 The teacher's manual of object-lessons and elementary science. Second edition. 415 p. il. D. London: Blackie & Son, 1895.

Howe, Edward Gardnier. 372.3 P500

6101 Systematic science teaching. A manual of inductive elementary work for all instructors. xxix,326 p. il. D. (International education series, vol. 27.) New York: D. Appleton & Co., 1895.

Jackman, Wilbur Samuel. 372.3 P600

2942 Nature study and related subjects, for the common schools. . . .
 2 parts. Chicago: by the author, c. 1896.
 Part 1 in F; part 2 in D.
 Part 1 has shelf-mark L372.3 P600.

Aber, Mary Rose Alling- 372.3 P702

7354 An experiment in education. Also the ideas which inspired it and were inspired by it. vii,[1],244,[1] p. D. New York: Harper & Brothers, 1897.

Wilson, Mrs. Lucy Langdon, [born] Williams. 372.3 P703

11055 Nature study in elementary schools. A manual for teachers. With a preface by Francis W. Parker. xix,262 p. il. 1 pl. D. New York: Macmillan Co., 1897.

Cannell, [Alice] Elizabeth Maud, & Wise, Margaret E. 372.3 P704
¹²¹⁰⁸ Outlines for kindergarten and primary classes in the study of nature and related subjects. Arranged by months. 162 p. D. New York: E. L. Kellogg & Co., c. 1897.

Hinsdale, Burke Aaron. 372.6 P600
⁶¹³⁴ Teaching the language-arts: speech, reading, composition. xxv, 205 p. D. (International education series, vol. 34.) New York: D. Appleton & Co., 1896.
 Contains a bibliography.

Gregory, Robert. 372.942 I
⁶⁹⁰⁵ Elementary education. Some account of its rise and progress in England. 192 p. D. London: National Society's Depository, 1895.

373-379 OTHER EDUCATIONAL TOPICS

Woodward, Calvin Milton. 375.6 P001
⁴⁹⁸⁷ Manual training in education. viii, 310 p. il. D. [Contemporary science series.] London: W. Scott, 1896.

Lange, Helene. 376.94 I
³³⁰² Higher education of women in Europe. Translated and accompanied by comparative statistics by L. R. Klemm. xxxvi, 186 p. il. D. (International education series, vol. 16.) New York: D. Appleton & Co., 1890.

Adler, Felix. 377.2 P200
⁶¹⁰⁶ The moral instruction of children. xiii, 270 p. D. (International education series, vol. 21.) New York: D. Appleton & Co., 1895.

Paulsen, Friedrich. 378.43 2
¹¹⁵⁴ The German universities, their character and historical development. Authorized translation by Edward Delavan Perry. With an introduction by Nicholas Murray Butler. xxxi, 254 p. D. New York: Macmillan & Co., 1895.

Thwing, Charles Franklin. 378.73 6
¹⁴⁶⁵¹ The American college in American life. iv, [2], 313 p. O. New York: G. P. Putnam's Sons, 1897.

Gilman, Daniel Coit.**378.73 7**

¹⁶⁴⁹⁴ University problems in the United States. [8],319 p. O. New York: Century Co., 1898.

Contents: The Johns Hopkins University in its beginning. The utility of universities. The characteristics of a university. The Sheffield Scientific School of Yale University, New Haven. The University of California in its infancy. Knowledge and charity. Modern progress in medicine. University libraries. The Teachers College of Columbia University. Washington and Lee University. Higher education in the United States. The proposals for a national university in Washington.

Seeley, Levi.**379.43 1**

¹⁰⁷⁵¹ The common-school system of Germany and its lessons to America. 251 p. D. (Kellogg's pedagogical library.) New York: E. L. Kellogg & Co., 1896.

Bardeen, Charles William.**379.747 1**

⁵¹²² A manual of common school law. [New edition, enlarged and rewritten.] 276 p. D. Syracuse: C. W. Bardeen, 1896.

380 COMMERCE AND COMMUNICATION

Chisholm, George Goudie.**380.2 P200**

⁵²⁸ Handbook of commercial geography. New edition. x,[2],515 p. il. 19 maps. O. London: Longmans, Green, & Co., 1894, pref. 1889.

Gibbins, Henry de Beltgens.**380.94 P100**

¹²⁷⁴⁴ The history of commerce in Europe. Second edition. viii,233 p. 9 maps. D. [Elementary commercial class-books.] London: Macmillan & Co., 1897.

Bastable, Charles Francis.**382 P700**

⁷⁸⁴⁰ The theory of international trade. With some of its applications to economic policy. Second edition, revised. xii,183 p. D. London: Macmillan & Co., 1897.

Dabney, Walter Davis.**385 0900**

¹⁶⁸⁹ The public regulation of railways. v,281 p. D. (Questions of the day, no. 60.) New York: G. P. Putnam's Sons, 1889.

Bonham, John Milton.**385 P002**

³⁰⁸⁹ Railway secrecy and trusts. 138 p. D. (Questions of the day, no. 61.) New York: G. P. Putnam's Sons, 1890.

Acworth, William Mitchell.**385 P100**

¹⁷⁹² The railways and the traders. A sketch of the railway rates question in theory and practice. Second edition. 14,378 p. D. London: J. Murray, 1891.

- Lewis, George Henry.** 385 P301
¹⁰⁹⁰¹ National consolidation of the railways of the United States. [2], xv,326 p. D. New York: Dodd, Mead & Co., 1893.
- Dixon, Frank Haigh.** 385 P600
¹³⁹⁰¹ State railroad control. With a history of its development in Iowa. With an introduction by Henry C. Adams. ix,251 p. 1 map, 1 table. D. [Library of economics and politics, vol. 9.] New York: T. Y. Crowell & Co., c. 1896.
- Thurston, Robert Henry.** 389 O300
¹²²⁸⁷ Conversion tables of metric and British or United States weights and measures. With an introduction. 83,xii p. O. New York: J. Wiley & Sons, 1883.
- Clark, Latimer.** 389 P100
¹³⁹²¹ A dictionary of metric and other useful measures. 113 p. D. London: E. & F. N. Spon, 1891.
- Ridgeway, William.** 389 P200
⁷⁵⁴⁵ The origin of metallic currency and weight standards. xii,417 p. 60 il. O. Cambridge: University Press, 1892.

390-397 MANNERS AND CUSTOMS

- Walsh, William Shepard.** 390.3 P800
¹²⁴⁸³ Curiosities of popular customs and of rites, ceremonies, observances, and miscellaneous antiquities. 1018 p. il. 3 pl. O. Philadelphia: J. B. Lippincott Co., 1898.
- Fernand-Michel, [François Fortuné].** 390.4 F39
¹⁶⁸⁶² The story of the stick in all ages and lands. A philosophical history and lively chronicle of the stick as the friend and the foe of man. . . . Translated and adapted from the French of Antony Réal (Fernand Michel). x,254 p. D. New York: J. W. Bouton, 1875.
- Dyer, Thomas Firminger Thiselton.** 390.942 N500
¹³⁸¹⁵ British popular customs, past and present; illustrating the social and domestic manners of the people: arranged according to the calendar of the year. [4],520 p. D. London: G. Bell & Sons, 1891, pref. 1875.
- Ashton, John.** 390.942 O200
¹²⁸⁶⁷ Social life in the reign of Queen Anne. Taken from original sources. A new edition. xix,474 p. 84 il. 1 facsim. D. London: Chatto & Windus, 1897.

Westermarck, Edward. 392.5 P100

²¹⁴ The history of human marriage. xix,[1],644 p. O. London: Macmillan & Co., 1891.

Budge, Ernest Alfred Wallis. 393.3 P300

¹²¹⁴⁸ The mummy. Chapters on Egyptian funereal archaeology. xvi, 404 p. il. 6 pl. 3 facsim. O. Cambridge: University Press, 1893.

Rowbotham, John Frederick. 394.7 P500

¹¹⁴¹⁴ The troubadours and courts of love. xxiii,[1],324 p. il. 1 pl. 2 maps. D. (Social England series.) London: Swan Sonnenschein & Co., 1895.

Higginson, Thomas Wentworth. 396.04 H53

¹¹⁴²¹ Common sense about women. Fourth (stereotyped) edition. 270 p. D. [Social science series, vol. 20.] London: Swan Sonnenschein & Co., 1897.

Leland, Charles Godfrey. 397.0 200

¹⁰ The gypsies. Fourth edition. 372 p. O. Boston: Houghton, Mifflin & Co., 1886.

398 FOLK-LORE

Brinton, Daniel Garrison. 398.1 B77

³⁵⁷⁵ The myths of the new world. A treatise on the symbolism and mythology of the red race of America. Third edition, revised. 360 p. O. Philadelphia: D. McKay, 1896.

Hulme, Frederic Edward. 398.35 H871

¹⁷⁰⁶⁴ Myth-land. viii,243 p. il. D. London: Sampson Low, . . . , & Rivington, 1886.

Hartland, Edwin Sidney. 398.4 H25

¹³⁷¹⁹ The science of fairy tales. An inquiry into fairy mythology. viii,372 p. D. [Contemporary science series, vol. 11.] London: W. Scott, 1891.

"Bibliographical list of some of the works referred to", p. 353-365.

Martinengo-Cesaresco, Evelyn. 398.8 M36

¹²³⁸⁴ Essays in the study of folk-songs. xl,395 p. O. London: G. Redway, 1886.

Christy, Robert. 398.9 C46

¹⁵⁴⁰⁴ Proverbs, maxims and phrases of all ages. Classified subjectively and arranged alphabetically. 2 vol. O. New York: G. P. Putnam's Sons, 1893.

400 LANGUAGE
400-410 GENERAL WORKS

Müller, Friedrich Max.

401 M91

¹⁰⁷⁶⁹ The science of thought. 2 vol. paged continuously; vol. 1: xxii, 1-326 p.; vol. 2: vii, 327-656 p. D. New York: C. Scribner's Sons, 1887.

Contents: Vol. 1. 1. The constituent elements of thought. 2. Thought and language. 3. On Kant's philosophy. 4. Language the barrier between man and beast. 5. The constituent elements of language. 6. On the origin of concepts and roots. Vol. 2. 7. The roots of Sanskrit. 8. Formation of words. 9. Propositions and syllogisms. 10. Conclusion.

Müller, Friedrich Max.

402 M91

²²⁶⁵ The science of language. Founded on lectures delivered at the Royal Institution in 1861 and 1863. 2 vol. D. London: Longmans, Green, & Co., 1891.

Sayce, Archibald Henry.

402 S274

²²⁶⁴ Introduction to the science of language. Third edition. 2 vol. D. London: Kegan Paul, ... , & Co., 1890.

Whitney, William Dwight.

402 W611

⁶⁴¹ The life and growth of language: an outline of linguistic science. vii,[2], 326 p. D. (International scientific series, vol. 16.) New York: D. Appleton & Co., 1882.

Paul, Hermann.

409 P28

²²⁶⁶ Principles of the history of language. Translated from the second edition of the original by H. A. Strong. New and revised edition (1890). xlviii, 511 p. O. London: Longmans, Green, & Co., 1891.

**Strong, Herbert Augustus, Logeman, Willem S.,
 & Wheeler, Benjamin Ide.**

409 S923

²⁰³⁹ Introduction to the study of the history of language. x,[2], 435 p. O. London: Longmans, Green, & Co., 1891.

Gröber, Gustav, *editor*.

L410 G89

²²¹¹ Grundriss der romanischen Philologie. Vol. 1-. pl. maps. Q. Strassburg: K. J. Trübner, 1888-.

- Sweet, Henry.** 414 S974
¹⁶⁷⁰⁴ A primer of phonetics. xi, 113 p. S. (Clarendon Press series.)
 Oxford: Clarendon Press, 1892.

420 ENGLISH LANGUAGE

- Lounsbury, Thomas Raynesford.** 420.9 L93
¹⁷⁶⁷ History of the English language. Revised and enlarged edition.
 xiv, 505 p. 2 maps. D. New York: H. Holt & Co., 1894.
- Marsh, George Perkins.** 420.9 M35
¹⁷⁵⁶ The origin and history of the English language and of the early
 literature it embodies. Revised edition. xv, 574 p. O. New
 York: C. Scribner's Sons, 1892.
- Teall, F. Horace.** 421.9 T22
¹⁸⁰⁰⁵ Punctuation. With chapters on hyphenization, capitalization,
 and spelling. vii, 193 p. S. New York: D. Appleton & Co.,
 1898.
- Skeat, Walter William.** 422 S627
²⁰⁴³ Principles of English etymology. First series: The native ele-
 ment. Second and revised edition. xxxiv, [2], 547 p. O. (Clar-
 endon Press series.) Oxford: Clarendon Press, 1892.
- Skeat, Walter William.** 422 S6271
²⁰⁴⁴ Principles of English etymology. Second series: The foreign ele-
 ment. xxxi, 505 p. O. (Clarendon Press series.) Oxford: Clar-
 endon Press, 1891.
- White, Richard Grant.** 422 W58
¹⁷⁶⁰ Words and their uses, past and present. A study of the English
 language. Twenty-seventh edition, revised and corrected. [2],
 vii, 467 p. D. Boston: Houghton, Mifflin & Co., c. 1870.
- Fennell, Charles Augustus Maude.** L423 F36
²¹⁶⁰ The Stanford dictionary of anglicised words and phrases. Edited
 for the Syndics of the University Press. xv, [1], 826 p. sq. Q.
 Cambridge: University Press, 1892.
- Murray, James Augustus Henry, *editor*.** L423 M96
⁴⁴²⁷ A new English dictionary on historical principles; founded main-
 ly on the materials collected by the Philological Society. . . .
 Continued from vol. 1. sq. F⁴. Oxford: Clarendon Press, 1884-.

Ogilvie, John, *LL.D.*

L423 O34

²³⁰⁶ The imperial dictionary of the English language: a complete encyclopedic lexicon, literary, scientific, and technological. New edition, ... revised and ... augmented. Edited by Charles Annandale. 4 vol. il. Q. London: Blackie & Son, [1882-1883].

Skeat, Walter William.

L423 S627

¹⁷⁷⁷ An etymological dictionary of the English language. Second edition. xxxii,844 p. sq.Q. Oxford: Clarendon Press, 1893.

Standard dictionary.

L423 S785

⁴⁰⁰ A standard dictionary of the English language upon original plans designed to give ... the orthography, pronunciation, meaning, and etymology of all the words and the meaning of idiomatic phrases in the speech and literature of the English-speaking peoples. Prepared ... under the supervision of Isaac K. Funk, Francis A. March, Daniel S. Gregory, xx,2318 p. il. 14 pl. F. New York: Funk & Wagnalls, 1895.

Stormonth, James.

L423 S885

²⁴⁵⁷ A dictionary of the English language, pronouncing, etymological, and explanatory, embracing scientific and other terms, numerous familiar terms, and a copious selection of old English words. The pronunciation revised by the Rev. P. H. Phelp, with supplement by William Bayne. New edition. xvi,1288 p. Q. Edinburgh: W. Blackwood & Sons, 1895.

Webster, [Noah].

L423 W39

¹³⁸⁶ Webster's international dictionary of the English language. Being the authentic edition of Webster's unabridged dictionary, comprising the issues of 1864, 1879, and 1884. Now thoroughly revised and enlarged under the supervision of Noah Porter. With an ... appendix. cvi,2126 p. il. 4 pl. 1 por. F. Springfield, Mass.: G. & C. Merriam Co., 1895, c. 1890.

Webster, [Noah].

423 W391

¹⁷⁹⁷⁹ Webster's academic dictionary. A dictionary of the English language, giving the derivations, pronunciations, definitions and synonyms of a large vocabulary of the words in common use, with an appendix containing various useful tables. Abridged from Webster's international dictionary. xxxii,704 p. il. O. New York: American Book Co., c. 1895.

Worcester, Joseph Emerson.**L423 W89**

¹⁵⁹⁶⁹ A dictionary of the English language. With supplement
 And an appendix lxxii, 2168 p. il. 27 pl. 6 pl. of
 por. 1 por. sq.Q. Philadelphia: J. B. Lippincott Co., 1897,
 c. 1886.

Halliwell-[Phillips], James Orchard.**423.I H15**

²⁴⁶⁵ A dictionary of archaic and provincial words, obsolete phrases,
 proverbs, and ancient customs from the fourteenth century.
 Eleventh edition. 2 vol. O. London: Reeves & Turner, 1889.

Crabb, George, *M. A.***424 C84**

²³³⁸ English synonyms explained in alphabetical order, with copious
 illustrations and examples drawn from the best writers. 638 p.
 O. London: G. Routledge & Sons, [1892].

Davidson, William L.**424 D28**

⁶⁹¹⁸ Leading and important English words: explained and exemplified.
 [Second edition.] viii, 225 p. S. London: Longmans,
 Green, & Co., 1896.

Fernald, James Champlin.**424 F39**

⁵⁷⁰⁴ English synonyms and antonyms. With notes on the correct use
 of prepositions. . . . x, [2], 564 p. O. (Standard educational
 series.) New York: Funk & Wagnalls Co., 1897.

Roget, Peter Mark.**424 R63**

²⁰⁴¹ Thesaurus of English words and phrases, classified and arranged
 so as to facilitate the expression of ideas and assist in literary
 composition. Enlarged and improved, partly from the author's
 notes, . . . , by John Lewis Roget. New edition. xlv, [2], 670
 p. O. London: Longmans, Green, & Co., 1894.

Soule, Richard.**424 S722**

⁸⁵²⁸ A dictionary of English synonymes, and synonymous or parallel
 expressions. Designed as a practical guide to aptness and vari-
 ety of phraseology. New edition, revised and enlarged by George
 H. Howison. viii, [2], 488 p. O. Philadelphia: J. B. Lippincott
 Co., 1892.

Abbott, Edwin Abbott.**425 A13I**

¹⁷⁶⁵ How to parse. An attempt to apply the principles of scholar-
 ship to English grammar. With appendixes on analysis, spelling,
 and punctuation. xxxi, 343 p. S. Boston: Roberts Brothers,
 1892.

Carpenter, George Rice.

425 C22

¹¹⁹⁶³ Principles of English grammar. For the use of schools. x,254 p. D. New York: Macmillan Co., 1898.

Mätzner, [Eduard].

425 M26

⁵⁵¹⁶ An English grammar: methodical, analytical, and historical. With a treatise on the orthography, prosody, inflections and syntax of the English tongue; Translated from the German, . . . , by Clair James Grece. 3 vol. O. London: J. Murray, 1874.

Sweet, Henry.

425 S974

²⁰⁶⁶ A new English grammar, logical and historical. Part I. Introduction, phonology, and accidence. xxiv,499 p. D. (Clarendon Press series.) Oxford: Clarendon Press, 1892.

Whitney, William Dwight.

425 W61

¹⁷⁶⁶ Essentials of English grammar. . . . xi,260,16 p. D. Boston: Ginn & Co., 1889, c. 1877.

Morris, Richard.

425.1 M83

²¹¹⁰ Historical outlines of English accidence, comprising chapters on the history and development of the language, and on word-formation. Revised by L. Kellner, with the assistance of Henry Bradley. xiii,[3],463 p. D. London: Macmillan & Co., 1895.

Wright, Joseph.

L427 W93

¹³⁸⁵⁷ The English dialect dictionary, being the complete vocabulary of all dialect words still in use, or known to have been in use during the last two hundred years. Founded on the publications of the English Dialect Society and on a large amount of material never before printed. Vol. 1—. sq.F. London: H. Frowde, 1898—.

Bartlett, John Russell.

427.95 B28

¹⁷⁶² Dictionary of Americanisms: a glossary of words and phrases usually regarded as peculiar to the United States. Fourth edition, . . . improved and enlarged. xlvi,[2],813 p. O. Boston: Little, Brown, & Co., 1896, c. 1877.

[Osmun, Thomas Embly.]

428.3 083

⁷⁷¹⁰ The verbalist. A manual devoted to brief discussions of the right and the wrong use of words and to some other matters of interest to those who would speak and write with propriety. By Alfred Ayres. New and revised edition, much enlarged. vi,337 p. S. New York: D. Appleton & Co., 1896.

Alfred Ayres is pseudonym of Thomas Embly Osmun.

430-490 OTHER LANGUAGES

Heyne, Moriz.**L433 H51**

²¹⁹¹ Deutsches Wörterbuch. 3 vol. Q. Leipzig: S. Hirzel, 1890-1895.

Kluge, Friedrich.**433 K71**

²¹⁴¹ Etymologisches Wörterbuch der deutschen Sprache. Fünfte verbesserte Auflage. xxvi,491 p. Q. Strassburg: K. J. Trübner, 1894.

Flügel, Felix.**L433.2 F67**

²³³⁷ Allgemeines englisch-deutsches und deutsch-englisches Wörterbuch. Zweiter ... vermehrter Abdruck der vierten ... Auflage von Dr. J. G. Flügel's Vollständigem Wörterbuch der englischen und deutschen Sprache. 2 vol. in 3. Q. Braunschweig: G. Westermann, 1894.

Muret, Eduard.**L433.2 M94**

⁹⁷⁸¹ Encyklopädisches englisch-deutsches und deutsch-englisches Wörterbuch. Ein Parallelwerk zu Sachs-Villatte's französisch-deutschem und deutsch-französischem Wörterbuche. Mit Angabe der Aussprache nach dem phonetischen System der Methode Toussaint-Langenscheidt. Grosse Ausgabe. Vol. 1-. Q. Berlin: Langenscheidtsche Verlagsbuchhandlung, 1891-.

Schmidt, Immanuel, & Tanger, G.**L433.2 S3511**

⁶⁶⁴⁶ Flügel - Schmidt - Tanger, A dictionary of the English and German languages for home and school. With special reference to Dr. Felix Flügel's Universal English-German and German-English dictionary. Second edition. 2 vol. Q. New-York: Lemcke & Buechner, 1897.

Eberhard, Johann August.**434 E16**

⁵²⁰⁵ Johann August Eberhards synonymisches Handwörterbuch der deutschen Sprache. Fünfzehnte Auflage. Nach der von Friedrich Rückert besorgten 12. Ausgabe durchgängig umgearbeitet, vermehrt und verbessert von Dr. Otto Lyon. Mit Übersetzung der Wörter in die englische, französische, italienische und russische Sprache [2],xliv,1011 p. O. Leipzig: T. Grieben, 1896.

Behaghel, Otto.

435 B39

²⁰³⁵ A short historical grammar of the German language, translated and adapted from Professor Behaghel's "Deutsche Sprache", by Emil Trechmann. viii, 194 p. D. London: Macmillan & Co., 1891.

Whitney, William Dwight.

435 W61

¹⁷⁷⁰ A compendious German grammar. Sixth edition, ... revised and with new exercises. xii, 472 p. D. New York: H. Holt & Co., c. 1888.

Ten Bruggencate, K.

439.332 T25

³⁰⁰¹ Engelsch woordenboek. 2 vol. O. Groningen: J. B. Wolters, 1895-1896.

Vol. 1. Engelsch-Nederlandsch; vol. 2. Nederlandsch-Engelsch.

Björkman, C. G.

439.732 B55

³¹⁰⁷ Svensk-engelsk ordbok. . . . [6], 1360 p. O. Stockholm: P. A. Norstedt & Söner, c. 1889.

Wenström, Edmund, & Lindgren, Erik.

439.732 W52

³⁰⁰⁰ Engelsk-svensk ordbog. . . . [6], 1758 p. O. Stockholm: P. A. Norstedt & Söner, 1889.

Larsen, Anton.

439.832 L32

³³²⁰ Dansk-norsk-engelsk Ordbog. Anden forögedede og omarbejdede Udgave. viii, 695 p. O. Kjöbenhavn: Gyldendalske Boghandel, 1888.

Olson, Julius Emil.

439.85 O45

¹⁴⁷¹⁶ Norwegian grammar and reader. With notes and vocabulary. x, 330 p. O. Chicago: Scott, Foresman & Co., 1898.

Littré, Emile.

L443 L73

³¹¹¹ Dictionnaire de la langue française. Supplément renfermant un grand nombre de termes d'art, de science, d'agriculture, etc. ... suivi d'un dictionnaire étymologique de tous les mots d'origine orientale, par Marcel Devic. [2], iv, 375, [2], vii, 84 p. sq. F. Paris: Hachette & C^{ie}, 1882.

Scheler, Auguste.

L443 S322

²⁴⁵⁹ Dictionnaire d'étymologie française d'après les résultats de la science moderne. Troisième édition revue et augmentée. x, [2], 526, [2] p. Q. Bruxelles: T. Falk, 1888.

- Brachet, Auguste.** 443.2 B72
²⁰⁴⁰ An etymological dictionary of the French language. . . . Translated by G. W. Kitchin. Third edition. xii, cxxviii, 407 p. D. (Clarendon Press series.) Oxford: Clarendon Press, 1882.
 With an introduction on French etymology and phonetics.
- Deshumbert, Marius.** 443.2 D45
²²²⁹ Deshumbert's dictionary of difficulties met with in reading, writing, translating, and speaking French. Fifth edition. vii, [1], 132 p. D. London: D. Nutt, 1894.
- Hamilton, Henry, & Legros, E.** L443.2 H18
³⁰⁰² Dictionnaire international français-anglais. . . . Nouvelle édition. . . . [6], 903 p. Q. Paris: A. Fouraut, 1896.
- Smith, Leon, & Hamilton, H.** L443.2 H181
³⁰⁰³ The international English and French dictionary. . . . New edition. . . . [6], 798 p. Q. Paris: A. Fouraut, 1896.
- Spiers, Alexandre.** 443.2 S755
¹⁴⁶⁵⁶ Dictionnaire général anglais-français [et français-anglais]. Nouvellement rédigé d'après Johnson, Webster, Richardson, etc., les dictionnaires français de l'Académie, de Laveaux, de Boiste, de Bescherelle, etc., Vingt-huitième édition. [2 vol.] O. Paris: Baudry, 1882.
 Contents: Vol. 1, Anglais-français; vol. 2, Français-anglais.
- Villatte, Césaire, & Sachs, Karl.** L443.3 V71
¹³²⁰ Encyklopädisches französisch-deutsches und deutsch-französisches Wörterbuch, 2 vol. Q. Berlin: Langenscheidtsche Verlags-Buchhandlung, 1894-1895.
 ——— Französisch-deutsches Supplement-Lexikon. . . . viii, 329 p. Q. Berlin: Langenscheidtsche Verlags-Buchhandlung, 1894.
 Vol. 1: ninth edition; vol. 2: eighth edition.
 The supplement is bound with vol. 1.
 Each volume has also a title-page in French.
- Lafaye, Benjamin.** 444 L13
³¹⁸² Dictionnaire des synonymes de la langue française: avec une introduction sur la théorie des synonymes. . . . Sixième édition, suivie d'un supplément. [4], lxxxiii, 1106, iv, 336 p. O. Paris: Hachette & C^{ie}, 1893.
- Brachet, Auguste.** 445 B72
²⁰⁶³ A historical grammar of the French language, from the French of Auguste Brachet. Rewritten and enlarged by Paget Toynbee. xxii, [2], 339 p. D. Oxford: Clarendon Press, 1896.

Otto, Emil.**445 O91**

¹³⁹⁵¹ French conversation-grammar. Revised by Ferdinand Bôcher. With full vocabularies, by L. Pylodet. Third American edition. (The Bôcher-Otto French course.) 489 p. D. New York: H. Holt & Co., c. 1884.

Davenport, John, & Comelati, Guglielmo.**453.2 D27**

⁴²⁹ A new dictionary of the Italian and English languages, based upon that of Baretti, and containing, ... ; a copious list of geographical and proper names, both ancient and modern. 2 vol. O. New York: D. Appleton & Co., 1855.

Grandgent, Charles Hall.**455 G76**

¹⁶⁰⁶³ Italian grammar. Third edition, revised and enlarged. vii, 132 p. D. (Heath's modern language series.) Boston, U. S. A.: D. C. Heath & Co., 1898, c. 1887.

Velazquez de la Cadena, Mariano.**L463.2 V54**

²²⁹¹ A pronouncing dictionary of the Spanish and English languages: composed from the Spanish dictionaries of the Spanish Academy, Terreros, and Salvá. Upon the basis of Seoane's edition of Neuman and Baretti. 2 vol. Q. London: Hirschfeld Bros., 1893, c. 1852.

Vol. 2 has title-page in Spanish.

Edgren, August Hjalmar.**465 E23**

¹⁵³⁷³ A brief Spanish grammar. With historical introductions and exercises. vii, 123 p. D. Boston, U. S. A.: D. C. Heath & Co., 1898, c. 1891.

Knapp, William Ireland.**465 K72**

¹⁷⁵⁷ A grammar of the modern Spanish language as now written and spoken in the capital of Spain. Second edition, ... revised by the author. x, 488 p. D. Boston: Ginn & Co., 1896, c. 1882.

Lewis, Charlton Thomas, & Short, Charles.**L473.2 L58**

¹³¹⁴ A Latin dictionary founded on Andrews' edition of Freund's Latin dictionary revised, enlarged and in great part rewritten. xiv, 2019 p. Q. Oxford: Clarendon Press, 1896.

Smith, Sir William, L. L. D., & Hall, Theophilus D.**473.2 S664**

¹⁴³²² A copious and critical English-Latin dictionary. Fifth edition. xi, [1], 963, [1] p. O. London: J. Murray, 1888.

Allen, Joseph Henry, & Greenough, James Bradstreet. 475 A427

²⁰¹¹ Allen and Greenough's Latin grammar, ... , founded on comparative grammar. Revised and enlarged by James Bradstreet Greenough, assisted by George L. Kittredge. xii,488 p. D. Boston, U. S. A.: Ginn & Co., 1895, c. 1888.

Lane, George Martin. 475 L24

¹⁷⁷²⁴ A Latin grammar for schools and colleges. [Completed by Morris H. Morgan.] xiv,[2],571,[1] p. O. New York: Harper & Brothers, 1898.

Liddell, Henry George, & Scott, Robert. L483.2 L61

¹³¹² A Greek-English lexicon. Seventh edition, revised and augmented xvi,1776 p. F. Oxford: Clarendon Press, 1890.

Goodwin, William Watson. 485 G63

²⁰¹² A Greek grammar. Revised and enlarged. xxxvi,[1],451 p. D. Boston: Ginn & Co., 1895.

500 PHYSICAL SCIENCES

501-509 GENERAL WORKS

Mill, Hugh Robert.

502 P200

⁶⁵² The realm of nature. An outline of physiography. xiii, 366 p. 68 il. 19 maps. D. [University extension manuals.] New York: C. Scribner's Sons, 1892.

Rossiter, William.

503 O800

¹⁹⁰ An illustrated dictionary of scientific terms. 350, [2] p. il. D. New York: G. P. Putnam's Sons, pref. 1878.

Clifford, William Kingdon.

504 C61

³¹⁵³ Lectures and essays. Edited by Leslie Stephen and Frederick Pollock, with an introduction by F. Pollock. 2 vol. il. por. O. London: Macmillan & Co., 1879.

Contents: Vol. 1. Introduction: Biographical. Selection from letters, etc. Bibliographical. — On some of the conditions of mental development. On theories of the physical forces. On the aims and instruments of scientific thought. Atoms. The first and last catastrophe. The unseen universe. The philosophy of the pure sciences. Vol. 2. Instruments used in measurement. Body and mind. On the nature of things-in-themselves. On the types of compound statement involving four classes. On the scientific basis of morals. Right and wrong: the scientific ground of their distinction. The ethics of belief. The ethics of religion. The influence upon morality of a decline in religious belief. Cosmic emotion. Virchow on the teaching of science.

[Kelvin], William Thomson, [1st Baron].

504 K29

¹²³⁶⁰ Popular lectures and addresses by Sir William Thomson. . . . 3 vol. il. pl. D. (Nature series.) London: Macmillan & Co., 1891-1894.

Contents: Vol. 1. Constitution of matter. Vol. 2. Geology and general physics. Vol. 3. Navigational affairs.

Vol. 1 is in second edition, with additions and corrections.

Dyer, Henry.

507 P300

⁵³⁰² Science teaching in schools: an address. [6], 128 p. D. London: Blackie & Son, 1893.

With appendixes.

Marmery, J. Villin.

509 P500

¹⁵⁷²⁷ Progress of science. Its origin, course, promoters, and results. With an introduction by Samuel Laing. xxxi, 358 p. O. London: Chapman & Hall, 1895.

Youmans, William Jay, *editor*.

509.2 Y8

⁵¹³⁵ *Pioneers of science in America. Sketches of their lives and scientific work. . . .* viii,508 p. 5 il. 49 por. O. New York: D. Appleton & Co., 1896.

Reprinted with additions from the *Popular Science Monthly*.

Brewster, *Sir* David.

509.262 B75

⁸⁸⁴ *The life of Sir Isaac Newton. A new edition. Revised and edited by W. T. Lynn.* xii,346 p. il. 1 por. D. London: W. Tegg & Co., 1875.

510 MATHEMATICS

Carr, G. S.

L510.2 O002

¹⁹³⁹⁶ *A synopsis of elementary results in pure mathematics: containing propositions, formulae, and methods of analysis, with abridged demonstrations. Supplemented by an index to the papers on pure mathematics which are to be found in the principal journals and transactions of learned societies, both English and foreign of the present century.* xxxvi,[2],935 p. il. 20 pl. Q. London: F. Hodgson, 1886.

Merriman, Mansfield, & Woodward, Robert S., *editors*. **510.2 P600**

⁶⁹⁷³ *Higher mathematics. A text-book for classical and engineering colleges. First edition. . . .* xi,576 p. il. O. New York: J. Wiley & Sons, 1896.

Contents: 1. Merriman, M. The solution of equations. 2. Weld, L. G. Determinants. 3. Halsted, G. B. Projective geometry. 4. McMahon, J. Projected geometry. 5. Byerly, W. E. Harmonic functions. 6. Fiske, T. S. Functions of a commonplace variable. 7. Johnson, W. W. Differential equations. 8. Hyde, E. W. Grassmann's space analysis. 9. Macfarlane, A. Vector analysis and quaternions. 10. Woodward, R. S. Probability and theory of errors. 11. Smith, D. E. History of modern mathematics.

Davies, Charles, & Peck, William G.

510.3 L500

⁸⁶² *Mathematical dictionary and cyclopedia of mathematical science. . . .* 592 p. il. O. New York: A. S. Barnes & Co., c. 1883.

McLellan, James Alexander, & Dewey, John.

510.7 P500

⁹⁰⁹⁶ *The psychology of number and its applications to methods of teaching arithmetic.* xiv,[2],309 p. D. (International education series, vol. 33.) New York: D. Appleton & Co., 1897.

Ball, Walter William Rouse.

510.79 P200

¹²³⁸² *Mathematical recreations and problems of past and present times.* xii,240 p. il. D. London: Macmillan & Co., 1892.

- Vega, Georg von.** 510.8 2
⁵⁹⁶¹ Georg's Freiherrn von Vega logarithmisch-trigonometrisches Handbuch. Neue vollständig durchgesehene und erweiterte Stereotyp-Ausgabe. Bearbeitet von Dr. C. Bremiker. . . . xxviii, 575 p. O. Berlin: Weidmannsche Buchhandlung, 1895.
- Newcomb, Simon.** 510.8 3
⁶⁹⁷⁵ Logarithmic and other mathematical tables, with examples of their use and hints on the art of computation. [4], ii, 80, [2], 104 p. O. (Newcomb's mathematical course.) New York: H. Holt & Co., c. 1882.
- Ball, Walter William Rouse.** 510.9 P301
⁷⁷⁰⁸ A short account of the history of mathematics. Second edition. xxiv, 520 p. il. D. London: Macmillan & Co., 1893.
- Wentworth, George Albert, & Hill, Thomas.** 511 0100
⁷⁷²⁶ A high school arithmetic. (Wentworth & Hill's practical arithmetic). . . . xv, [1], 362 p. il. D. Boston, U. S. A.: Ginn & Co., 1890, c. 1881.
- McLellan, James Alexander, & Ames, A. F.** 511 P700
⁸⁰³⁶ The public school arithmetic. Based on McLellan and Dewey's "Psychology of number." x, 346 p. il. D. New York: Macmillan Co., 1897.
- Todhunter, Isaac.** 512 N001
¹⁹³²⁵ Algebra for the use of colleges and schools. . . . New edition. x, 608 p. D. London: Macmillan & Co., 1897.
 ——— Key [4], 244 p. D. London: Macmillan & Co., 1894.
- Todhunter, Isaac.** 512 P700
⁷⁵⁴⁷ Algebra for beginners. With numerous examples. New edition, revised and enlarged by S. L. Loney. viii, 428, xxxvi p. D. London: Macmillan & Co., 1897.
- Todhunter, Isaac.** 512.82 0001
¹⁹³⁷⁰ An elementary treatise on the theory of equations, with a collection of examples. vi, 328 p. D. London: Macmillan & Co., 1895.
- Hanus, Paul H.** 512.83 0600
¹²⁵⁹⁵ An elementary treatise on the theory of determinants. A textbook for colleges. viii, 217 p. O. Boston: Ginn & Co., 1888.

- Phillips, Andrew Wheeler, & Fisher, Irving.** 513 P601
⁶⁶⁹⁴ Elements of geometry. viii,540 p. il. O. (Phillips-Loomis mathematical series.) New York: Harper & Brothers, 1896.
- Eukleides.** 513 P702
⁸⁶²⁷ Euclid: books I-IV. By Rupert Deakin. viii,309 p. il. D. (University tutorial series.) London: W. B. Clive, pref. 1897.
- Evans, Thomas Jay, & Pullen, W. W. F.** 513 P706
⁹²⁰⁴ A treatise on practical plane and solid geometry. Containing solutions to the honours questions set at the examinations of the Science and Art Department (1887-1896) inclusive. vi,[2],400 p. il. O. London: Chapman & Hall, 1897.
- Hobson, E. W.** 514 P100
⁹⁶³⁷ A treatise on plane trigonometry. Second edition. xv,360 p. il. O. Cambridge: University Press, 1897.
- Briggs, William, & Bryan, G. H.** 514 P700
⁸⁵¹⁰ The tutorial trigonometry. viii,326 p. 140 il. D. (University tutorial series.) London: W. B. Clive, pref. 1897.
- Todhunter, Isaac.** 514.5 N400
¹⁹³⁷¹ Plane trigonometry for the use of colleges and schools, vi, 341 p. il. D. London: Macmillan & Co., 1895.
- Graham, Robert Hudson.** 515 P100
¹⁰²⁴⁰ Geometry of position. xv,192 p. il. 2 pl. D. London: Macmillan & Co., 1891.
- Butterfill, Henry Holt.** 515 P700
⁸⁵¹³ First principles of mechanical and engineering drawing. A course of study adapted to the self-instruction of students and apprentices to mechanical engineering in all its branches xii,211 p. 203 il. O. London: Chapman & Hall, 1897.
- Spanton, J. Humphrey.** 515.6 P800
¹⁸⁰⁵⁴ Complete perspective course. Comprising the elementary and advanced stages of perspective, the projection of shadows and reflections, with exercises in theory and practice, also the practical application of perspective. Designed to meet ... : the examinations of the Science and Art Department, South Kensington, and of the College of Preceptors; the Oxford and Cambridge local examinations xvii,282 p. 191 il. O. ["Britannia" science series.] London: Macmillan & Co., 1898.
 Binder's title: Science and art drawing.

- Loney, S. L.** 516 P500
⁶⁵⁵¹ The elements of coordinate geometry. Second edition, revised.
 ix,416,xiii p. il. D. London: Macmillan & Co., 1896.
- Bailey, Frederick Harold, & Woods, Frederick S.** 516 P700
⁷⁶³¹ Plane and solid analytic geometry. xii,371 p. il. O. Boston,
 U. S. A.: Ginn & Co., 1897.
- Lambert, Preston Albert.** 516 P701
⁷⁸⁰² Analytic geometry for technical schools and colleges. xi,216 p.
 179 il. D. New York: Macmillan Co., 1897.
- Smith, Charles.** 516.22 O300
¹⁶⁸⁹³ An elementary treatise on conic sections. [Second edition, re-
 vised.] xi,352 p. il. D. London: Macmillan & Co., 1898.
- Reye, Theodor.** 516.5 O601
¹⁶¹³⁵ Lectures on the geometry of position. Translated and edited by
 Thomas F. Holgate. Part 1. xix,248 p. il. O. New York:
 Macmillan Co., 1898.
- Scott, Charlotte Angus.** 516.5 P400
¹¹²⁴⁴ An introductory account of certain modern ideas and methods in
 plane analytical geometry. xii,288 p. 64 il. O. London: Mac-
 millan & Co., 1894.
- Byerly, William Elwood.** 516.56 P300
¹²⁰¹⁶ An elementary treatise on Fourier's series and spherical, cylin-
 drical, and ellipsoidal harmonics, with applications to problems in
 mathematical physics. ix,287 p. il. O. Boston, U. S. A.: Ginn
 & Co., 1895.
- Kelland, Philip, & Tait, P. G.** 516.8 O200
¹¹³⁴⁰ Introduction to quaternions, with numerous examples. Second
 edition. xiii,232 p. il. D. London: Macmillan & Co., 1882.
- Tait, Peter Guthrie.** 516.8 P001
⁶³⁶⁹ An elementary treatise on quaternions. Third edition, much en-
 larged. xxvii,422 p. il. O. Cambridge: University Press, 1890.
- Hathaway, Arthur Stafford.** 516.8 P600
⁸⁵⁵¹ A primer of quaternions. x,113 p. il. D. New York: Macmil-
 lan & Co., 1896.
- Greenhill, Alfred George.** 517.1 P601
⁶¹⁵⁰ Differential and integral calculus, with applications. Third edi-
 tion. x,[2],460 p. 62 il. London: Macmillan & Co., 1896.

Smith, Robert Henry.

517.1 P700

- ⁸³⁵⁹ The calculus for engineers and physicists: integration and differentiation, with applications to technical problems; with classified reference tables of integrals and methods of integrals. xi,[1], 176 p. 29 il. 1 table. D. London: C. Griffin & Co., 1897.

Perry, John.

517.1 P702

- ⁹³⁰⁴ The calculus for engineers. Second edition. vi,[2], 378 p. 106 il. D. London: E. Arnold, 1897.

Lamb, Horace.

517.1 P703

- ¹¹¹⁶⁷ An elementary course of infinitesimal calculus. xx, 616 p. 149 il. D. Cambridge: University Press, 1897.

Byerly, William Elwood.

517.2 N900

- ¹²⁰³⁸ Elements of the differential calculus, with examples and applications. A text book. xv, 258 p. il. O. Boston, U. S. A.: Ginn & Co., 1895, c. 1879.

Williamson, Benjamin.

517.2 P300

- ¹²³³⁹ An elementary treatise on the differential calculus, containing the theory of plane curves, with numerous examples. Eighth edition, revised and enlarged. xvi, 472 p. 82 il. D. London: Longmans, Green, & Co., 1893.

Byerly, William Elwood.

517.3 0800

- ¹²⁰¹⁰ Elements of the integral calculus, with a key to the solution of differential equations, and A short table of integrals [compiled by B. O. Peirce.] Second edition, revised and enlarged. xvi, 339,[2], 65-76, 32 p. il. O. Boston, U. S. A.: Ginn & Co., 1895, c. 1888.

Forsyth, Andrew Russell.

517.38 0500

- ⁶³⁵⁵ A treatise on differential equations. xvi, 421 p. O. London: Macmillan & Co., 1885.

Johnson, William Woolsey.

519 P200

- ¹⁰²⁵⁷ The theory of errors and method of least squares. First edition. ... x, 152,[22] p. 5 il. D. New York: J. Wiley & Sons, 1896.

520 ASTRONOMY

Chambers, George Frederick.

520.2 0900

- ⁵²⁶⁵ A handbook of descriptive and practical astronomy. Fourth edition. 3 vol. il. pl. O. [Clarendon press series.] Oxford: Clarendon Press, 1889-1890.

- Ball, Sir Robert Stawell.** 520.2 P300
²⁹⁶ In the high heavens. 383 p. 40 il. 1 pl. O. London: Isbister & Co., 1894.
- Howe, Herbert Alonzo.** 520.2 P600
⁷⁶³⁷ A study of the sky. 340 p. 144 il. 1 pl. D. (Chautauqua Reading Circle Literature.) Meadville, Penna.: Flood & Vincent, 1896.
- Ball, Sir Robert Stawell.** 520.2 P601
⁸³¹⁵ Elements of astronomy. New edition, thoroughly revised. xiv, 469 p. 130 il. D. [Text-books of science.] Longmans, Green, & Co., 1896.
- Clerke, Agnes Mary, Fowler, A., & Gore, J. Ellard.** 520.2 P700
¹³⁷²⁰ The concise knowledge astronomy. xvi, 581 p. il. 1 pl. O. [Concise knowledge library.] London: Hutchinson & Co., 1898.
- Young, Charles Augustus.** 520.2 P800
¹⁷⁷⁷³ A text-book of general astronomy for colleges and scientific schools. Revised edition. ix, 630 p. 246 il. 1 pl. O. Boston: Ginn & Co., 1898.
- Todd, David Peck.** 520.2 P901
²⁰⁰¹⁵ Stars and telescopes. A hand-book of popular astronomy, founded on the 9th edition of Lynn's Celestial motions. xvi, 419 p. il. 7 pl. 4 gr. of por. 1 por. 3 maps, 1 table. D. Boston: Little, Brown, & Co., 1899.
 Bibliographical references at the end of each chapter.
- Clerke, Agnes Mary.** 520.9 O700
⁴⁸⁶¹ A popular history of astronomy during the nineteenth century. Second edition. xvi, 502 p. 1 pl. O. Edinburgh: A. & C. Black, 1887.
- Berry, Arthur.** 520.9 P800
²⁰¹⁹⁵ A short history of astronomy. xxxi, 440 p. il. 17 pl. 9 por. 1 map, 2 tables. D. [University extension manuals.] London: J. Murray, 1898.
- Ball, Sir Robert Stawell.** 520.92 B21
⁷⁶³⁸ Great astronomers. xii, 372 p. il. 1 pl. O. London: Isbister & Co., 1895.
- Lodge, Oliver [Joseph].** 520.92 L82
³⁰⁶ Pioneers of science. xv, 404 p. 120 il. 1 por. O. London: Macmillan & Co., 1893.

Blake, John Frederick.

520.93 N700

⁸⁷⁴³ Astronomical myths, based on Flammarion's "History of the heavens." xvi,431 p. il. 6 pl. O. London: Macmillan & Co., 1877.

Lockyer, Sir Joseph Norman.

520.932 P300

⁷⁸⁸⁷ The dawn of astronomy. A study of the temple-worship and mythology of the ancient Egyptians. xvi,432 p. il. 1 pl. 1 map. O. New York: Macmillan Co., 1897.

Lockyer, Sir Joseph Norman.

522 N700

³⁷⁵⁰ Stargazing: past and present. . . . xiv,[2],496 p. 217 il. 1 pl. O. London: Macmillan & Co., 1878.

Fowler, A.

522 P500

⁴⁵⁰⁰ Popular telescopic astronomy. How to make a 2-inch telescope and what to see with it. vi,[2],77 p. il. 1 pl. D. New York: T. Whittaker, 1896.

Campbell, William Wallace.

522 P900

¹⁹⁵⁵⁸ The elements of practical astronomy. Second edition, revised and enlarged. xii,264 p. 28 il. O. New York: Macmillan Co., 1899.

Scheiner, Julius.

522.67 P400

⁷⁷⁸² A treatise on astronomical spectroscopy. Being a translation of Die Spectralanalyse der Gestirne. Translated, revised and enlarged, with the coöperation of the author, by Edwin Brant Frost. xiii,482 p. 81 il. 2 pl. O. Boston, U. S. A.: Ginn & Co., 1894.
"A bibliography of astronomical spectroscopy", p. 427-472.

Langley, Samuel Pierpont.

523 O700

⁷⁷⁰⁴ The new astronomy. xii,260 p. 93 il. O. Boston: Houghton, Mifflin & Co., 1896, c. 1887.

Serviss, Garrett Putnam.

523 O800

⁶³⁰¹ Astronomy with an opera-glass. A popular introduction to the study of the starry heavens with the simplest of optical instruments. With maps and directions to facilitate the recognition of the constellations and the principal stars visible to the naked eye. Eighth edition, with appendix. vi,154 p. il. O. New York: D. Appleton & Co., 1895, c. 1888.

Ball, Sir Robert Stawell.

523 P200

⁶¹⁵⁶ An atlas of astronomy. A series of . . . plates, with introduction and index. xi,57,17 p. 72 pl. sq.O. New York: D. Appleton & Co., 1892.

Flammarion, Camille.**523 P400**

- ⁷⁹²⁰ Popular astronomy. A general description of the heavens. Translated from the French ... by J. Ellard Gore. xix, 686 p. 288 il. 3 pl. O. New York: D. Appleton & Co., [1894].

Chambers, George Frederick.**523 P500**

- ⁴⁴⁷² The story of the solar system simply told for general readers. 188 p. il. 1 pl. S. [Library of useful stories.] New York: D. Appleton & Co., 1896.

Howe, Herbert Alonzo.**523 P701**

- ⁷³⁵² Elements of descriptive astronomy. A text-book. xii, 340 p. il. 4 pl. 5 maps. O. New York: Silver, Burdett & Co., 1897.
"List of reference books," p. 320-326.

Nasmyth, James, & Carpenter, James.**523.3 O500**

- ⁹⁸⁹² The moon: considered as a planet, a world, and a satellite. [Third edition.] xv, [1], 213 p. 46 il. 26 pl. O. London: J. Murray, 1885.

Elger, Thomas Gwyn.**L523.34 P500**

- ⁸⁷⁵⁷ The moon. A full description of its principal physical features. viii, 173 p. 4 maps. Q. London: G. Philip & Son, 1895.

Lowell, Percival.**523.43 P500**

- ⁷⁹⁴⁶ Mars. Second edition. x, 228 p. il. 26 pl. O. Boston: Houghton, Mifflin & Co., 1896.

Lockyer, Sir Joseph Norman.**523.5 P001**

- ³⁶⁹⁸ The meteoritic hypothesis: a statement of the results of a spectroscopic inquiry into the origin of cosmical systems. xvi, 560 p. 101 il. 7 pl. O. London: Macmillan & Co., 1890.

Angot, Alfred.**523.59 P500**

- ⁶⁴⁶⁴ The aurora borealis. xii, 264 p. il. 16 pl. D. (International scientific series, vol. 77.) New York: D. Appleton & Co., 1897.

Ball, Sir Robert Stawell.**523.7 P300**

- ¹³⁸⁴ The story of the sun. xii, 376 p. 82 il. 11 pl. O. New York: D. Appleton & Co., 1893.

Young, Charles Augustus.**523.7 P500**

- ¹²²⁷ The sun. New and revised edition. xii, 363 p. 100 il. 2 pl. D. (International scientific series, vol. 34.) New York: D. Appleton & Co., 1895.

Clerke, Agnes Mary.**523.8 P001**

- ³⁶⁹⁵ The system of the stars. xix, [1], 424 p. 50 il. 6 pl. O. London: Longmans, Green, & Co., 1890.

Ball, Sir Robert Stawell. 525.6 O900

⁹⁹¹² Time and tide, a romance of the moon. Third edition, revised.
... . 192 p. 5 il. 1 pl. S. (Romance of science.) London:
Society for Promoting Christian Knowledge, 1895.

Darwin, George Howard. 525.6 P800

¹⁶⁸⁷⁹ The tides and kindred phenomena in the solar system. The substance of lectures delivered in 1897 at the Lowell Institute, Boston, Massachusetts. xviii, 378 p. 43 il. O. Boston: Houghton, Mifflin & Co., 1898.

"Authorities," at the end of each chapter.

Gore, James Howard. 526.09 P100

⁸⁰³⁹ Geodesy. vi, [4], 218 p. il. 2 pl. D. (Riverside science series.)
Boston: Houghton, Mifflin & Co., 1891.

Gillespie, William Mitchell. 526.9 P600

⁵⁹¹⁸ A treatise on surveying, comprising the theory and the practice. Revised and enlarged by Cady Staley. 2 vol. il. map. O.
New York: D. Appleton & Co., 1896-1897.

Johnson, John Butler. 526.9 P700

¹¹⁹³¹ The theory and practice of surveying. Designed for the use of surveyors and engineers generally. But especially for the use of students in engineering. Thirteenth edition, revised and enlarged. [2], xxv, 754 p. il. 3 maps. O. New York: J. Wiley & Sons, 1897, c. 1886.

Smith, Richard Somers. 526.98 O500

¹⁷⁸⁶⁹ A manual of topographical drawing. Revised and enlarged by Charles McMillan. Third edition. xi, 112 p. 57 il. 16 pl. 4 maps, 3 tables. O. New York: J. Wiley & Sons, 1894, c. 1885.

Stebbing, Frank Cole. 527 P601

⁶⁵⁵⁰ Navigation and nautical astronomy. xi, 328 p. 140 il. O. London: Macmillan & Co., 1896.

530-536 PHYSICS

Tait, Peter Guthrie. 530.1 P001

⁴⁶⁴² Properties of matter. Second edition—enlarged. xii, 332 p. 41 il. D. Edinburgh: A. & C. Black, 1890.

[Kelvin], William Thomson, 1st Baron, 530.2 N900

³⁷⁶⁹ & Tait, Peter Guthrie.

Treatise on natural philosophy. New edition. Vol. 1 in 2 parts. il. O. Cambridge: University Press, 1879-1883.

No more published.

Barker, George Frederick.

530.2 P200

- ⁵¹²⁰ Physics. Advanced course. Fourth edition, revised. x,902 p. 380 il. 1 map. O. (American science series.) New York: H. Holt & Co., 1893.

Privat-Deschanel, Augustin.

530.2 P400

- ⁶⁷⁰⁹ Elementary treatise on natural philosophy, based on the *Traité de physique* of A. Privat Deschanel. By J. D. Everett. Thirtieth edition. 4 parts in 4 vol. il. pl. map. O. New York: D. Appleton & Co., 1894-1896.
Vol. 1 was published in 1896.

Avery, Elroy McKendree.

530.2 P500

- ⁵⁷⁰⁵ School physics. . . . 608 p. 473 il. D. New York: Sheldon & Co., c. 1895.

Daniell, Alfred.

530.2 P503

- ⁹²³¹ A text book of the principles of physics. Third edition. . . . xxv,783 p. 257 il. O. New York: Macmillan & Co., 1895.
"Bibliography", p. 751-756.

Ames, Joseph Sweetman.

530.2 P600

- ⁵⁵⁷⁴ Theory of physics. xviii,513 p. 283 il. O. New York: Harper & Brothers, 1897.

Nichols, Edward Leamington, & Franklin, William S. 530.2 P602

- ⁵⁷⁰⁰ The elements of physics. . . . 3 vol. il. pl. O. New York: Macmillan & Co., 1896-1897.
Contents: Vol. 1. Mechanics and heat. Vol. 2. Electricity and magnetism. Vol. 3. Light and sound.

Ganot, [Adolphe].

530.2 P802

- ²⁰²⁹⁶ Elementary treatise on physics, experimental and applied. . . . Translated and edited from Ganot's *Éléments de physique* (with the author's sanction) by E. Atkinson. Fifteenth edition, revised and enlarged. xi,1142 p. 1057 il. 2 pl. 6 maps, 1 table. O. London: Longmans, Green, & Co., 1898.

Tait, Peter Guthrie.

530.4 T13

- ¹⁶⁰⁶⁰ Lectures on some recent advances in physical science. xii,337 p. il. D. London: Macmillan & Co., 1876.

Everett, Joseph David.

530.8 I

- ³⁹²⁹ Illustrations of the C. G. S. system of units, with tables of physical constants. [Fourth edition.] xvi,220 p. il. D. London: Macmillan & Co., 1891.

- Kohlrausch, Friedrich.** 530.87
⁶⁰⁶⁶ An introduction to physical measurements, with appendices on absolute electrical measurement, etc. Third edition. Translated from the seventh German edition by Thomas Hutchinson Waller and Henry Richardson Procter. xix,476 p. 91 il. O. New York: D. Appleton & Co., 1894.
- Gray, Thomas.** 530.88
⁶¹⁴⁸ Smithsonian physical tables. [2],xxxiv,301 p. O. (SMITHSONIAN INSTITUTION. Smithsonian miscellaneous collections.) Washington 1896.
- Landolt, Hans, & Börnstein, Richard, editors.** L530.8 11
⁹⁴⁰⁹ Physikalisch-chemische Tabellen. Unter Mitwirkung von Dr. C. Barus, ... [und Anderen], herausgegeben. Zweite, stark vermehrte Auflage. xi,[2],563 p. Q. Berlin: J. Springer, 1894.
- Cajori, Florian.** 530.9 P900
¹⁸⁵⁶⁸ A history of physics in its elementary branches including the evolution of physical laboratories. viii,322 p. 18 il. O. New York: Macmillan Co., 1899.
- Garnett, William.** 530.92 G18
¹⁶⁹⁴⁷ Heroes of science. Physicists. vii,339 p. D. London: Society for Promoting Christian Knowledge, pref. 1885.
- Goodeve, Thomas Minchin.** 531 0700
¹²⁷⁶ A manual of mechanics. An elementary text-book designed for students of applied mechanics. Third edition. vii,228 p. il. S. London: Longmans, Green, & Co., 1887.
- Mach, Ernst.** 531 0800
¹⁶⁴⁵ The science of mechanics. A critical and historical exposition of its principles. Translated from the second German edition, by Thomas J. McCormack. xiv,[2],534 p. 250 il. O. Chicago: Open Court Publishing Co., 1893.
- Maxwell, James Clerk.** 531 P001
¹⁵⁴⁸ Matter and motion. Second American edition. viii,224 p. 18 il. S. [Van Nostrand's science series, vol. 36.] New York: D. Van Nostrand Co., 1892.
- Thornton, Arthur.** 531 P401
¹⁹⁵⁶⁸ Theoretical mechanics. Solids, including kinematics, statics and kinetics. New edition. xii,440 p. 220 il. D. [Longmans' advanced science manuals.] London: Longmans, Green, & Co., 1897

- Rankine, William John Macquorn.** 531 P500
¹²⁰¹⁴ A manual of applied mechanics. Fourteenth edition, thoroughly revised. By W. J. Millar. xiv,671 p. il. O. London: C. Griffin & Co., 1895.
- Todhunter, Isaac.** 531.2 O700
¹⁹³²⁷ A treatise on analytical statics, with numerous examples. Fifth edition. Edited by J. D. Everett. viii,364 p. il. D. London: Macmillan & Co., 1887.
- Routh, Edward John.** 531.2 P200
¹¹¹⁵⁹ A treatise on analytical statics. With numerous examples. . . . 2 vol. il. O. Cambridge: University Press, 1892-1896.
 Vol. 1 is in second edition, published in 1896.
- Routh, Edward John.** 531.3 P700
⁵⁵⁶³ The elementary part of a treatise on the dynamics of a system of rigid bodies. Being part I. of a treatise on the whole subject. With numerous examples. Sixth edition, revised and enlarged. xiii,[1],424 p. il. O. London: Macmillan & Co., 1897.
- Thurston, Robert Henry.** 531.8 P400
¹²²³⁶ The animal as a machine and a prime motor, and the laws of energetics. First edition. . . . iv,97 p. 3 il. D. New York: J. Wiley & Sons, 1894.
- Minchin, George Minchin.** 532 P201
¹⁵⁷⁰⁸ Hydrostatics and elementary hydrokinetics. ix,424 p. 115 il. D. Oxford: Clarendon Press, 1892.
- Stone, T. W.** 532.5 O100
¹⁷⁶⁷⁹ Simple hydraulic formulæ. viii,90 p. 9 pl. D. London: E. & F. N. Spon, 1881.
- Kimball, Arthur Lalanne.** 533.1 P001
³⁸⁸³ The physical properties of gases. viii,238 p. 39 il. D. (River-side science series, no. 2.) Boston: Houghton, Mifflin & Co., 1890.
- Fijnje van Salverda, J. G. W.** 533.6 P201
⁸⁰⁷¹ Aerial navigation. Translated from the Dutch by George E. Waring, Jr. With notes concerning some recent developments in the art. vi,209 p. 25 il. 1 pl. D. New York: D. Appleton & Co., 1894.
- Chanute, Octave.** 533.6 P400
⁵⁵⁵⁵ Progress in flying machines. iv,[2],308 p. il. O. New York: American Engineer and Railroad Journal, pref. 1894.

Tyndall, John.

534 P300

⁶⁴⁴⁴ Sound. Sixth edition. xv,464 p. il. 1 pl. 1 por. D. London: Longmans, Green, & Co., 1895.

Helmholtz, Hermann von.

L534.3 O500

⁸¹⁵⁵ On the sensations of tone as a physiological basis for the theory of music. Translated, thoroughly revised and corrected, rendered conformable to the fourth (and last) German edition of 1877, with numerous additional notes and a new additional appendix bringing down information to 1885 and especially adapted to the use of musical students, by Alexander J. Ellis. Third edition. xix,576 p. 70 il. Q. London: Longmans, Green, & Co., 1895.

Zahm, John Augustine.

534.3 P200

⁹²⁹⁰ Sound and music. 452 p. il. 1 pl. O. Chicago: A. C. McClurg & Co., 1892.

Tyndall, John.

535 N500

⁴²⁷ Six lectures on light, delivered in America in 1872-1873. Second edition. xvii,272 p. 59 il. 1 pl. 1 por. O. New York: D. Appleton & Co., 1883.

Wright, Lewis.

535 P200

¹¹⁶¹⁷ Light. A course of experimental optics, chiefly with the lantern. Second edition, revised and enlarged. xv,[1],391 p. 207 il. 9 pl. D. New York: Macmillan & Co., 1894.

Thompson, Silvanus Phillips.

535 P701

¹⁴⁶⁴⁷ Light, visible and invisible. A series of lectures delivered at the Royal Institution of Great Britain, ... , 1896. xii,294 p. il. 7 pl. 3 por. D. New York: Macmillan Co., 1897.

Preston, Thomas.

535.1 P001

³⁷⁴⁶ The theory of light. xvi,465 p. 205 il. O. London: Macmillan & Co., 1890.

Rood, Ogden Nicholas.

535.6 N900

⁶⁴⁶ Modern chromatics, with applications to art and industry. 329 p. 130 il. 1 pl. D. (International scientific series, vol. 26.) New York: D. Appleton & Co., 1879.

Le Conte, Joseph.

535.7 O100

³⁰² Sight: an exposition of the principles of monocular and binocular vision. 275 p. 132 il. D. (International scientific series, vol. 31.) New York: D. Appleton & Co., 1881.

- Wright, Lewis.** 535.81 P500
¹¹³³³ Optical projection. A treatise on the use of the lantern in exhibition and scientific demonstration. Third edition, with appendix. vi,[2],438 p. 237 il. D. London: Longmans, Green, & Co., 1895.
- Landauer, John.** 535.84 P601
¹¹⁵⁵⁶ Spectrum analysis. Authorized English edition by J. Bishop Tingle. First edition. . . . x,239 p. 44 il. O. New York: J. Wiley & Sons, 1898.
- Preston, Thomas.** 536 P402
¹¹¹⁶⁵ The theory of heat. xvi,719 p. 190 il. O. London: Macmillan & Co., 1894.
- Stewart, Balfour.** 536 P500
¹²⁰⁴² An elementary treatise on heat. Sixth edition. Revised with additions by Robert E. Baynes. xxiv,476 p. 86 il. D. (Clarendon Press series.) Oxford: Clarendon Press, 1895.
- Tyndall, John.** 536.1 0001
⁶⁰⁵¹ Heat a mode of motion. Sixth edition. xix,591 p. 125 il. 1 pl. D. New York: D. Appleton & Co., 1895, pref. 1880.
- Sloane, Thomas O'Connor.** 536.42 P900
¹⁷⁹²¹ Liquid air and the liquefaction of gases. Theory, history, biography, practical applications, manufacture. [2],365 p. il. O. New York: N. W. Henley & Co., 1899.

537-538 ELECTRICITY AND MAGNETISM

- Maxwell, James Clerk.** 537.02 P103
³⁹⁷² A treatise on electricity and magnetism. Third edition. 2 vol. il. pl. O. Oxford: Clarendon Press, 1892.
- Burch, George James.** 537.02 P300
⁴²²³ A manual of electrical science. xi,260 p. 39 il. D. [University extension series.] London: Methuen & Co., 1893.
- Thompson, Silvanus Phillips.** 537.02 P505
¹⁹²⁷⁴ Elementary lessons in electricity & magnetism. [New edition.] xv,622 p. il. 1 map. S. [Macmillan's school class books.] London: Macmillan & Co., 1899.

Sloane, Thomas O'Connor.

537.03 P700

¹⁷⁶⁷⁵ The standard electrical dictionary. A popular encyclopædia of words and terms used in the practice of electrical engineering. Second edition, with appendix to date. 682 p. 393 il. 1 pl. D. London: C. Lockwood & Son, 1898.

Houston, Edwin James.

L537.03 P800

¹⁹⁵⁸¹ A dictionary of electrical words, terms and phrases. Fourth edition. With appendix. Greatly enlarged. vi,[2],990 p. 582 il. Q. New York: W. J. Johnston Co., 1898.

Mendenhall, Thomas Corwin.

537.09 O700

³⁹⁰⁷ A century of electricity. 229 p. il. D. Boston: Houghton, Mifflin & Co., 1888.

Lodge, Oliver Joseph.

537.1 P201

¹⁰²³⁷ Modern views of electricity. [Second edition.] xvi,480 p. 67 il. D. (Nature series.) London: Macmillan & Co., 1892.

Thomson, Joseph John.

537.1 P501

¹⁹²⁶⁸ Elements of the mathematical theory of electricity and magnetism. Second edition. viii,508 p. 133 il. D. Cambridge: University Press, 1897.

Trowbridge, John.

537.1 P600

⁶⁰⁹⁶ What is electricity? viii,315 p. 53 il. 1 pl. D. (International scientific series, vol. 75.) New York: D. Appleton & Co., 1896.

Lodge, Oliver Joseph.

537.4 P200

¹⁵⁸² Lightning conductors and lightning guards. A treatise on the protection of buildings, of telegraph instruments and submarine cables, and of electric installations generally, from damage by atmospheric discharges. xii,544 p. il. 20 pl. D. [Specialists' series.] London: Whittaker & Co., 1892.

Gray, Andrew.

537.7 O801

⁸¹⁰² The theory and practice of absolute measurements in electricity and magnetism. 2 vol. in 3; vol. 2, parts 1 and 2 paged continuously; part 1: xxiii,[1],1-346 p.; part 2: xx,347-868 p. il. D. London: Macmillan & Co., 1888-1893.

Urbanitzky, Alfred von.

537.8 P303

¹²³⁰² Electricity in the service of man. A popular and practical treatise on the applications of electricity in modern life. By R. Wormell. (From the German of Dr. A. R. von Urbanitzky.) Revised and enlarged by R. Mullineux Walmsley. xx,976 p. 955 il. 1 pl. O. London: Cassell & Co., 1897.

- Slingo, W., & Brooker, A.** 537.8 P801
¹⁸¹⁷¹ Electrical engineering for electric light artisans and students, (embracing those branches prescribed in the syllabus issued by the City and Guilds Technical Institute). Revised and enlarged edition. vi,[2],780 p. 359 il. D. London: Longmans, Green, & Co., 1898.
- Maver, William, Jr.** 537.81 P700
¹⁰⁰⁹⁴ American telegraphy: systems, apparatus, operation. [Second edition.] xvi,563,[9] p. 430 il. O. New York: W. Maver & Co., 1897.
- Field, Henry Martyn.** 537.815 P200
¹³¹⁵⁹ The story of the Atlantic telegraph. ix,415 p. 4 il. 1 por. D. New York: C. Scribner's Sons, 1898, c. 1892.
- Fahie, J. J.** 537.819 0400
¹⁴⁰⁸¹ A history of electric telegraphy, to the year 1837. Chiefly compiled from original sources, and hitherto unpublished documents. xix,542 p. 35 il. 2 pl. D. London: E. & F. N. Spon, 1884.
 "Bibliography", p. 531-536.
- Preece, William Henry, & Stubbs, Arthur J.** 537.82 P300
¹¹³⁵³ A manual of telephony. xviii,508 p. 333 il. D. (Specialists' series.) London: Whittaker & Co., 1893.
- Whipple, Frederick H.** 537.83 0801
⁴²³¹ Municipal lighting. 257 p. il. O. Detroit, Mich., 1888.
- Crocker, Francis B.** 537.83 P600
⁵⁵⁴² Electric lighting. A practical exposition of the art Volume I. The generating plant. viii,450 p. 152 il. O. New York: D. Van Nostrand Co., 1896.
- Urquhart, John W.** 537.83 P802
¹⁹⁶⁹⁷ Electric light: its production and use. Embodying plain directions for the treatment of dynamo-electric machines, batteries, accumulators, & electric lamps. Sixth edition, revised, with an additional chapter. xvi,428 p. 153 il. D. London: C. Lockwood & Son, 1898.
- Thompson, Silvanus Phillips.** 537 835 P700
⁶¹⁰³ Dynamo-electric machinery. A manual for students of electro-technics. Sixth edition, with supplement: [Latest dynamo-electric machines]. 2 vol. paged continuously; vol. 1: x,[2],1-530 p.; vol. 2: [2],531-835,x,39 p. il. pl. O. [Finsbury technical manuals.] London: E. & F. N. Spon, 1897.

Fischer-Hinnen, J. 537.836 P900
¹⁷⁸⁸⁴ Continuous-current dynamos in theory and practice. With details of methods and formulæ used in construction. A practical handbook for designers, manufacturers, and users. xiv,417,vi p. il. 1 pl. 4 tables. O. London: Biggs & Co., 1899.

Urquhart, John W. 537.839 P701
¹⁸⁶⁹⁸ Electric light fitting. A handbook for working electrical engineers, embodying practical notes on installation management. Third edition, revised, with further additions. xiii,316 p. 95 il. 1 pl. 1 table. D. London: C. Lockwood & Son, 1898.

Borchers, W. 537.85 P700
⁸⁶¹⁸ Electric smelting and refining: the extraction and treatment of metals by means of the electric current. Being the second edition of "Elektro-metallurgie." Translated, with additions, by Walter G. McMillan. xx,416 p. 188 il. 2 pl. O. London: C. Griffin & Co., 1897.

Langbein, Georg. 537.85 P800
¹³⁰²⁹ A complete treatise on the electro-deposition of metals. Translated from the German of Dr. George Langbein. With additions by William T. Brannt. Third edition, thoroughly revised and much enlarged. xxix,498 p. 150 il. 1 pl. O. Philadelphia: H. C. Baird & Co., 1898.

Treadwell, Augustus. 537.86 P801
¹⁷⁷¹⁸ The storage battery. A practical treatise on the construction, theory, and use of secondary batteries. xix,[1],257 p. 117 il. 1 pl. 1 table. D. New York: The Macmillan Co., 1898.

Neumayer, Georg. L538.7 P100
¹²⁷⁹⁰ Atlas des Erdmagnetismus. 20 p. il. 5 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 4.) Gotha: J. Perthes, 1891.

539 MOLECULAR PHYSICS

Risteen, Allan Douglas. 539.1 P500
¹⁶⁶⁸³ Molecules and the molecular theory of matter. viii,223 p. 52 il. O. Boston, U. S. A.: Ginn & Co., 1896.

540 CHEMISTRY

540-541 GENERAL WORKS AND THEORETICAL CHEMISTRY

Graham, [Thomas, *M. A.*], & Otto, [J. F.] 540.2 M800

¹³⁵²⁷ Graham-Otto's ausführliches Lehrbuch der Chemie. . . . Vol. 1-. il. pl. tables. O. Braunschweig: F. Vieweg & Sohn, 1868-.
Vol. 1 is in third edition, published in 1885; vol. 2 is in fifth; vol. 3-4 are in second.

Roscoe, Sir Henry Enfield, & Schorlemmer, C. 540.2 P001

¹⁰⁰⁴⁷ A treatise on chemistry. New edition Vol. 1-. il. por. O. London: Macmillan & Co., 1890-.
Vol. 1 is revised by Sir H. E. Roscoe, assisted by H. G. Colman and A. Harden.
Vol. 1 published in 1894.

Mendelyeev, Dimitry. 540.2 P400.

¹⁴⁵⁸⁵ The principles of chemistry. Translated from the Russian (sixth edition) by George Kamensky. Edited by T. A. Lawson. 2 vol. il. tables. O. London: Longmans, Green, & Co., 1897.

Wurtz, Adolphe. 540 2 P605

¹¹⁴⁹⁰ Elements of modern chemistry. By Charles Adolphe Wurtz. Fifth American Edition. Revised and enlarged by Wm. H. Greene, and Harry F. Keller. 808 p. 136 il. 1 por. 1 table. D. Philadelphia: J. B. Lippincott Co., 1896.

Wurtz, Adolphe. L540.3 M800

¹⁷³⁹ Dictionnaire de chimie, pure et appliquée. Comprenant: la chimie organique et inorganique; la chimie appliquée à l'industrie, à l'agriculture et aux arts: la chimie analytique, la chimie physique et la minéralogie. 3 vol. in 5. il. pl. Q. Paris: Hachette & Cie, 1870-1878.

Wurtz, Adolphe. L540.3 M800

⁵⁹²⁹ Dictionnaire de chimie, pure et appliquée. . . . Supplément. 2 vol. il. pl. Q. Paris: Hachette & Cie, [1880-1886].

Wurtz, Adolphe. L540.3 M800

⁹³¹⁷ Deuxième supplément au Dictionnaire de chimie, pure et appliquée. Publié sous la direction de Ch. Friedel. . . . Vol. 1-. il. Q. Paris: Hachette & Cie, 1892-.

Neues Handwörterbuch. 540.3 N100

¹²¹⁵² Neues Handwörterbuch der Chemie. Auf Grundlage des von Liebig, Poggendorff und Wöhler, Kolbe und Fehling herausgegebenen Handwörterbuchs der reinen und angewandten Chemie und unter Mitwirkung von mehreren Gelehrten bearbeitet Vol. 1-. il. O. Braunschweig: F. Vieweg & Sohn, 1874-.
Vol. 1-3 edited by Herman von Fehling; vol. 4- by Carl Hell.

Muir, Matthew Moncrieff Pattison, 540.3 O800
 1201 & Morley, H. Forster, *editors*.

Watts' dictionary of chemistry, revised and entirely rewritten . . .
 [With addenda.] 4 vol. il. O. London: Longmans, Green, &
 Co., 1890-1894.

Vol. 1: second edition; vol. 3: new edition.

Meyer, Ernst von. 540.9 O800

7735 A history of chemistry, from earliest times to the present day,
 being also an introduction to the study of the science. Trans-
 lated . . . by George M'Gowan. xxii,556 p. O. London: Mac-
 millan & Co., 1891.

Tilden, William Augustus. 540.9 P900

91521 A short history of the progress of scientific chemistry in our own
 times. x,276 p. il. pl. D. London: Longmans, Green, & Co.,
 1899.

Muir, Matthew Moncrieff Pattison. 540.92 M89

16948 Heroes of science. Chemists. . . . vii,332 p. 8 il. D. Lon-
 don: Society for Promoting Christian Knowledge, 1883.

Roscoe, Sir Henry Enfield. 540.9221 R71

10987 John Dalton and the rise of modern chemistry. 216 p. il. 1 por.
 2 facsim. D. (Century science series.) London: Cassell & Co.,
 1895.

Muir, Matthew Moncrieff Pattison. 541 O400

1527 A treatise on the principles of chemistry. Second edition.
 xxvii,[1],490 p. 49 il. O. Cambridge: University Press, 1889.

Meyer, Lothar von. 541 O401

15761 Modern theories of chemistry. Translated from the German
 (5th edition) by P. Phillips Bedson and W. Carleton Williams.
 xliii,587 p. 1 table. O. London: Longmans, Green, & Co., 1888.

Scott, Alexander. 541 P101

10996 An introduction to chemical theory. viii,266 p. il. 2 tables. D.
 London: A. & C. Black, 1891.

Dobbin, Leonard, & Walker, James. 541 P200

18823 Chemical theory for beginners. viii,240 p. il. 1 table. S. [Mac-
 millan's school class books.] London: Macmillan & Co., 1896.

Muir, Matthew Moncrieff Pattison. 541 P300

4961 The chemistry of fire. viii,163 p. 17 il. D. [University exten-
 sion series.] London: Methuen & Co., 1893.

Remsen, Ira.**541 P600**

⁵⁵⁹⁷ The principles of theoretical chemistry, with special reference to the constitution of chemical compounds. Fifth edition, thoroughly revised. 326 p. O. Philadelphia: Lea Brothers & Co., 1897.

Berthelot, Marcellin.**L541.16 P700**

¹¹⁵²⁵ Thermochimie. Données et lois numériques. . . . 2 vol. Q. Paris: Gauthier-Villars & Fils, 1897.

Ostwald, Wilhelm.**541.17 P602**

¹¹⁰⁰⁶ Elektrochemie. Ihre Geschichte und Lehre. xvi, 1151, [1] p. 260 il. O. Leipzig: Veit & Co., 1896.

Hoff, Jacobus Henricus van 't.**541.7 P400**

¹³⁷¹² The arrangement of atoms in space. Second revised and enlarged edition. With a preface by Johannes Wislicenus and an appendix: Stereochemistry among inorganic substances by Alfred Werner. Translated and edited by Arnold Eiloart. xi, 211 p. il. D. London: Longmans, Green, & Co., 1898.

Comey, Arthur Messenger.**541.8 P500**

¹³¹⁰ A dictionary of chemical solubilities inorganic. xx, 515 p. O. London: Macmillan & Co., 1896.

Morgan, John Livingston Rutgers.**541.8 P700**

⁷⁶¹⁰ An outline of the theory of solution and its results. For chemists and electricians. First edition. . . . vii, 63 p. D. New York: J. Wiley & Sons, 1897.

Threlfall, Richard.**542.2 P800**

¹⁵⁹⁰¹ On laboratory arts. xii, 338 p. 91 il. D. [Macmillan's manuals for students.] London: Macmillan & Co., 1898.

Contents: 1. Hints on the manipulation of glass and on glass-blowing for laboratory purposes. Appendix. On the preparation of vacuum tubes for the production of Professor Röntgen's radiation. 2. Glass-grinding and opticians' work. 3. Miscellaneous processes. 4. Electroplating and allied arts. Appendix. Platinising glass.

543-545 CHEMICAL ANALYSIS

Böckmann, Friedrich, *editor*.**543.02 P300**

¹²⁵¹⁶ Chemisch-technische Untersuchungsmethoden der Gross-Industrie, der Versuchsstationen und Handelslaboratorien. . . . Dritte vermehrte und umgearbeitete Auflage. 2 vol. il. O. Berlin: J. Springer, 1893.

Wiley, Harvey Washington.**543.02 P400**

⁵⁶⁹⁴ Principles and practice of agricultural analysis. A manual for the estimation of soils, fertilizers, and agricultural products. . . . 3 vol. il. pl. O. Easton, Pa.: Chemical Publishing Co., 1894-1897.

Caldwell, George Chapman.**543.02 P401**

¹²⁵⁴³ Elements of qualitative and quantitative chemical analysis. Third edition, revised and enlarged. viii, 187 p. il. O. Philadelphia: P. Blakiston, Son & Co., 1894.

Crookes, William.**543.02 P402**

¹³⁶⁰⁰ Select methods in chemical analysis (chiefly inorganic). Third edition, rewritten and enlarged. xxii, 718 p. 67 il. O. London: Longmans, Green, & Co., 1894.

Smith, William Robert.**543.02 P602**

⁷⁷⁷⁰ The laboratory text-book of public health. xx, 322 p. 82 il. 9 pl. O. London: H. Renshaw, 1896.

Stillman, Thomas Bliss.**543.02 P700**

⁵⁶⁹⁸ Engineering chemistry: a manual of quantitative chemical analysis. . . . xxiii, [1], 523 p. 154 il. O. Easton, Pa.: Chemical Publishing Co., 1897.

Ulzer, Ferdinand, & Fraenkel, A.**543.02 P705**

¹⁸²⁵⁴ Introduction to chemical-technical analysis. (Authorized translation), with appendix by the translator, Hermann Fleck. vii, 188 p. 13 il. O. Philadelphia: P. Blakiston's Son & Co., 1898.

Lewkowitsch, Julius.**543.02 P800**

¹⁴⁵⁸⁷ Chemical analysis of oils, fats, waxes and of the commercial products derived therefrom. Founded on Benedikt's second edition of 'Analyse der Fette.' Second thoroughly revised and enlarged edition. xxi, 834 p. 48 il. O. London: Macmillan & Co., 1898.

Allen, Alfred H.**543.02 P803**

¹²⁵⁶⁸ Commercial organic analysis: a treatise on the properties, proximate analytical examination, and modes of assaying the various organic chemicals and products employed in the arts, manufactures, medicine, with concise methods for the detection and determination of their impurities, adulterations, and products of decomposition. Third edition with revisions and addenda by the author and Henry Leffmann. Vol. 1-. il. O. Philadelphia: P. Blakiston's Son & Co., 1898-.

Blyth, Alexander Wynter.

543.1 P602

¹⁵⁰⁶⁴ Foods: their composition and analysis. A manual for the use of analytical chemists and others. With an introductory essay on the History of adulteration. Fourth edition, revised and enlarged. xxxii, 735 p. 81 il. 4 pl. 6 tables. O. London: C. Griffin & Co., 1896.

Wanklyn, James Alfred, & Chapman, Ernest Theophron. **543.3 P600**

¹²³³² Water-analysis. A practical treatise on the examination of potable water. Tenth edition. Revised and partly rewritten by J. Alfred Wanklyn. 205 p. il. D. London: Kegan Paul, ... , & Co., 1896.

Hoffmann, Frederick, & Power, Frederick B.

543.4 O300

¹⁴³⁶⁶ A manual of chemical analysis as applied to the examination of medicinal chemicals. A guide for the determination of their identity and quality, and for the detection of impurities and adulterations. Third edition, thoroughly revised and greatly enlarged. 624 p. 179 il. O. Philadelphia: H. C. Lea's Son & Co., 1883.

Fresenius, Carl Remigius.

544 P400

¹²⁵⁰⁷ Manual of qualitative chemical analysis. Authorized translation by Horace L. Wells. New edition, thoroughly revised from the sixteenth German edition. xvii, 748 p. 48 il. 1 table. O. New York: J. Wiley & Sons, 1897.

Endlich, Frederick M.

544.3 P201

¹³²²⁶ Manual of qualitative blowpipe analysis and determinative mineralogy. Second edition. xv, 11-456 p. il. 1 table. O. New York: Scientific Publishing Co., 1895.

Fresenius, Carl Remigius.

545 O100

⁷²⁹¹ A system of instruction in quantitative chemical analysis. [Second American edition.] From the last English and German editions. Edited by O. D. Allen, with the coöperation of Samuel W. Johnson. xvi, 883 p. 107 il. O. New York: J. Wiley & Sons, 1897, c. 1881.

Talbot, Henry P.

545 P700

⁵⁶¹¹ An introductory course of quantitative chemical analysis, with explanatory notes and stoichiometrical problems. 125 p. il. O. New York: Macmillan Co., 1897.

Classen, Alexander.**545.3 P701**

¹²³¹² Quantitative Analyse durch Elektrolyse. Vierte umgearbeitete Auflage. Unter Mitwirkung von Dr. Walther Löb. viii,249 p. il. 7 pl. O. Berlin: J. Springer, 1897.

Classen, Alexander.**545.3 P800**

¹¹³⁷⁵ Quantitative chemical analysis by electrolysis. By Dr. Alexander Classen in co-operation with Dr. Walter Löb. Authorized translation, third English from the revised and greatly enlarged fourth German edition by William Hale Herrick, and Bertram B. Boltwood. . . . xii,301 p. il. 8 pl. O. New York: J. Wiley & Sons, 1898.

546 INORGANIC CHEMISTRY**Remsen, Ira.****546 0900**

¹⁵⁴⁴ Inorganic chemistry. Second edition, revised. xxi,827 p. 78 il. O. (American science series. Advanced course.) New York: H. Holt & Co., 1890.

Ramsay, William, F.R.S.**546 P101**

¹¹¹⁴⁵ A system of inorganic chemistry. xv,700 p. 56 il. O. London: J. & A. Churchill, 1891.

Freer, Paul Caspar.**546 P400**

¹⁷⁰⁰ Descriptive inorganic general chemistry. . . . Revised edition. ix,550 p. 54 il. O. Boston: Allyn & Bacon, 1894.

Thorpe, Thomas Edward.**546 P800**

¹⁹³¹⁸ A manual of inorganic chemistry. . . . New edition. 2 vol. il. D. London: W. Collins, Sons, & Co., 1898.

547 ORGANIC CHEMISTRY**Pinner, Adolf.****547.02 0100**

¹⁵⁴⁰⁵ An introduction to the study of organic chemistry. Translated and revised from the fifth German edition by Peter T. Austen. Second revised edition. . . . xxi,403 p. 12 il. D. New York: J. Wiley & Sons, 1894.

Richter, Victor von.**547.02 P100**

¹⁶⁷¹ Chemistry of the carbon compounds, or organic chemistry. Authorized translation, by Edgar F. Smith. Second American edition, from the sixth German edition. 1040 p. 9 il. O. Philadelphia: P. Blakiston, Son & Co., 1892.

Beilstein, Fedor [Fedorovitch].

L547.02 P301

¹²³¹⁵ Handbuch der organischen Chemie. Dritte, umgearbeitete Auflage. . . . Vol. 1.—. Q. Hamburg: L. Voss, 1893—.

Bernthsen, August.

547.02 P302

¹³⁰¹⁶ A text-book of organic chemistry. Translated by George M'Gowan. Third English edition revised and extended by author and translator. xix,[1],596 p. il. D. London: Blackie & Son, 1896.

Meyer, Victor, & Jacobson, Paul.

547.02 P303

¹³⁷²⁷ Lehrbuch der organischen Chemie. . . . Vol. 1.—. il. table. O. Leipzig: Veit & Co., 1893—.

Schorlemmer, Carl.

547.09 P400

¹¹²⁶⁵ The rise and development of organic chemistry. Revised edition. Edited by Arthur Smithells. xxvii,280 p. il. 1 por. D. London: Macmillan & Co., 1894.

“Bibliography,” p. xxv–xxvii.

Hammarsten, Olof.

547.9 P001

¹³¹³² A text-book of physiological chemistry. Authorized translation from the second Swedish edition and from the author's enlarged and revised German edition by John A. Mandel. First edition. . . . x,511 p. 1 table. O. New York: J. Wiley & Sons, 1897.

Bunge, Gustav [von].

547.9 P400

¹³¹²⁸ Lehrbuch der physiologischen und pathologischen Chemie. In fünfundzwanzig Vorlesungen für Ärzte und Studierende. Dritte vermehrte und verbesserte Auflage. iv,447 p. O. Leipzig: F. C. W. Vogel, 1894.

549 MINERALOGY

Dana, James Dwight.

L549.02 P200

⁷³⁰⁷ The system of mineralogy of James Dwight Dana, 1837–1868. Descriptive mineralogy. Sixth edition, by Edward Salisbury Dana, entirely rewritten and much enlarged. lxiii,1134 p. il. Q. New York: J. Wiley & Sons, 1896.

Bibliographical references throughout the book.

Dana, Edward Salisbury.

549.02 P500

¹³⁵²¹ Minerals and how to study them. A book for beginners in mineralogy. Second revised edition. . . . vi,380 p. 318 il. 1 pl. D. New York: J. Wiley & Sons, 1897.

Dana, Edward Salisbury. 549.02 P802

¹⁸⁹⁰⁹ A text-book of mineralogy with an extended treatise on crystallography and physical mineralogy. New edition, entirely rewritten and enlarged. vii,593 p. 1008 il. 1 pl. O. New York: J. Wiley & Sons, 1899.

"Literature," p. 2-4, and scattered through the book.

Dana, Edward Salisbury. L549.02 P900

¹⁸⁵²⁴ First appendix to the sixth edition of [J. D.] Dana's System of mineralogy. Completing the work to 1899. x,75 p. il. Q. New York: J. Wiley & Sons, 1899.

Bibliographical references throughout the book.

Egleston, Thomas. L549.03 P200

¹³⁵⁷¹ A catalogue of minerals and synonyms. Third edition, revised and enlarged. [2],iii,[4],379 p. Q. New York: J. Wiley & Sons, 1892.

Chester, Albert Huntington. 549.03 P600

⁸¹⁶⁸ A dictionary of the names of minerals, including their history and etymology. First edition. . . . xxxvii,[1],320 p. O. New York: J. Wiley & Sons, 1896.

With bibliographical references.

Brush, George Jarvis. 549.1 P800

¹⁸³⁰⁰ Manual of determinative mineralogy. With an introduction on blowpipe analysis. Revised and enlarged, with entirely new tables for the identification of minerals, by Samuel L. Penfield. Fifteenth edition. x,312 p. il. O. New York: J. Wiley & Sons, 1899.

NATURAL SCIENCES

550 GEOLOGY

550.1-550.9 GENERAL WORKS

Howorth, Sir Henry Hoyle.**550.1 P201**

¹³⁵⁸¹ The glacial nightmare and the flood. A second appeal to common sense from the extravagance of some recent geology. 2 vol. paged continuously; vol. 1: xxvii,[1],1-376 p. vol. 2: xi,377-920 p. O. London: Sampson Low, Marston & Co., 1893.

Shaler, Nathaniel Southgate.**550.2 O402**

⁵⁶²² A first book in geology. . . . xvii,255 p. 127 il. D. Boston: D. C. Heath & Co., 1894, c. 1884.

Contains also chapters on the organic life on the earth.

Le Conte, Joseph.**550.2 P100**

¹⁰⁴⁴ Elements of geology. . . . Revised and enlarged. xvii,640 p. 982 il. 1 pl. O. New York: D. Appleton & Co. 1891.

Berghaus, Hermann.**L550.2 P201**

¹²⁷⁵⁸ Atlas der Geologie. Unter beratender Mitwirkung von Prof. Dr. K. v. Zittel bearbeitet von Dr. Hermann Berghaus. . . . 7 p. *14 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung I.) Gotha: J. Perthes, 1892.

Geikie, Sir Archibald.**550.2 P300**

¹³⁶⁹⁶ Text-book of geology. Third edition, revised and enlarged. xvi,1147 p. 471 il. 1 pl. 1 table. O. London: Macmillan & Co., 1893.

Bonney, Thomas George.**550.2 P301**

²⁹⁷ The story of our planet. xii,[2],535 p. 170 il. 4 pl. 2 maps. O. New York: Cassell Publishing Co., c. 1893.

Dana, James Dwight.**550.2 P401**

¹²³⁶¹ Manual of geology. Treating of the principles of the science with special reference to American geological history. Fourth edition. 1088 p. 1575 il. 2 maps. O. New York: American Book Co., 1896.

Geikie, Sir Archibald.**550.2 P600**

⁴⁸⁷¹ Geology. vi,137 p. 46 il. S. (Science primers, no. 5.) New York: American Book Co., [1896].

Watts, William Whitehead. 550.2 P800
¹⁹⁵⁸² Geology for beginners. xvii,352 p. 309 il. 1 pl. D. London: Macmillan & Co., 1898.

Geikie, Archibald. 550.4 G27
³⁹⁷⁹ Geological sketches at home and abroad. x,382 p. 29 il. O. London: Macmillan & Co., 1882.

Geikie, Sir Archibald. 550.92 G27
¹⁰³⁴¹ The founders of geology. x,297 p. O. London: Macmillan & Co., 1897.

Bonney, Thomas George. 550.9252 B64
¹²⁸⁶⁰ Charles Lyell and modern geology. 224 p. 1 por. D. (Century science series.) London: Cassell & Co., 1895.

551-551.4 PHYSICAL GEOGRAPHY

Croll, James. 551.02 N500
⁶⁴⁴⁰ Climate and time in their geological relations; a theory of secular changes of the earth's climate. xvi,[2],577 p. 12 il. 2 pl. 5 maps, 1 table. O. New York: D. Appleton & Co., 1875.

Reclus, Elisée. L551.02 O600
⁵⁷⁸⁹ A new physical geography. Edited by A. H. Keane. 2 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1886.
 Contents: Vol. 1. The earth. A descriptive history of the phenomena of the life of the globe. Vol. 2. The ocean, atmosphere, and life.

Shaler, Nathaniel Southgate. 551.02 O900
⁴⁴⁸⁹ Aspects of the earth: a popular account of some familiar geological phenomena. xix,344 p. il. 16 pl. O. New York: C. Scribner's Sons, 1890.

Tarr, Ralph Stockman. 551.02 P500
¹⁰²⁵⁵ Elementary physical geography. xxxi,488 p. 267 il. 1 pl. 9 maps. O. New York: Macmillan Co., 1897.

Simmons, Arthur Thomas. 551.02 P704
¹²¹⁷¹ Physiography for advanced students. viii,483 p. 218 il. D. London: Macmillan & Co., 1897.

Shaler, Nathaniel Southgate. 551.02 P800
¹⁶⁸⁷³ Outlines of the earth's history. A popular study in physiography. vii,417 p. 23 il. 10 pl. O. New York: D. Appleton & Co., 1898.

- Davis, William Morris, & Snyder, William Henry.** 551.02 P801
¹⁸³¹⁵ Physical geography. xvii,[1],431 p. 261 il. 1 pl. 2 maps paged in, 7 maps. D. Boston, U. S. A.: Ginn & Co., 1899.
 "References for supplementary reading," p. 409-416.

- Dana, James Dwight.** 551.21 P001
³⁸⁹² Characteristics of volcanoes, with contributions of facts and principles from the Hawaiian Islands, including a historical review of Hawaiian volcanic action for the past sixty-seven years, a discussion of the relations of volcanic islands to deep-sea topography, and a chapter on volcanic-island denudation. xvi,399 p. il. 4 maps. O. New York: Dodd, Mead, & Co., 1890.

- Russell, Israel Cook.** 551.21 P700
⁵¹⁷⁹ Volcanoes of North America. A reading lesson for students of geography and geology. xiv,346 p. 10 il. 12 pl. 4 maps. O. New York: Macmillan Co., 1897.

- Tyndall, John.** 551.31 N200
⁶⁴² The forms of water in clouds & rivers, ice & glaciers. xxiii,[1] 196 p. 35 il. 1 por. D. (International scientific series, vol. 1.) New York: D. Appleton & Co., 1882.

- Geikie, James.** 551.4 P800
¹⁷⁶⁶⁶ Earth sculpture; or, The origin of land-forms. xvi,320 p. 89 il. 2 pl. O. [Progressive science series.] London: J. Murray, 1898.

- Berghaus, Hermann.** L551.46 P100
¹³¹⁴⁹ Atlas der Hydrographie. 5 p. 11 maps. F⁴. (Berghaus' physikalischer Atlas. [Dritte Ausgabe.] Abteilung 2.) ... Gotha: J. Perthes, 1891.

- Russell, Israel Cook.** 551.48 P500
²⁸⁷ Lakes of North America. A reading lesson for students of geography and geology. x,[2],125 p. 9 il. 13 pl. 10 maps. O. Boston: Ginn & Co., 1895.

- Russell, Israel Cook.** 551.48 P801
¹⁶²⁹⁴ Rivers of North America. A reading lesson for students of geography and geology. xix,327 p. 23 il. 11 pl. 6 maps, 1 table. O. [Science series, vol. 3.] New York: G. P. Putnam's Sons, 1898.

551.5 METEOROLOGY

Abercromby, Ralph, *F. R. Met. S.* 551.5 0700

³⁰³ Weather. A popular exposition of the nature of weather changes from day to day. xix,472 p. 96 il. D. (International scientific series, vol. 58.) New York: D. Appleton & Co., 1887.

Hann, Julius. L551.5 0704

¹²⁷⁸⁹ Atlas der Meteorologie. 12 p. 12 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 3.) Gotha: J. Perthes, 1887.

Waldo, Frank. 551.5 P401

¹⁰⁸⁰⁴ Modern meteorology: an outline of the growth and present condition of some of its phases. xxiii,460 p. il. 1 map, 2 tables. D. [Contemporary science series, vol. 21.] London: W. Scott, 1894.

Davis, William Morris. 551.5 P402

¹¹⁰⁴¹ Elementary meteorology. xi,[1],355 p. 106 il. 6 maps. O. Boston, U. S. A.: Ginn & Co., 1894.

Russell, Thomas. 551.5 P403

¹⁷⁰⁸¹ Meteorology, weather, and methods of forecasting, description of meteorological instruments and river flood predictions in the United States. xxiii,277 p. il. 1 pl. 45 maps. O. New York: Macmillan & Co., 1895.

Archibald, [Edmund] Douglas. 551.5 P700

⁷⁸⁶⁴ The story of the earth's atmosphere. 194 p. 43 il. 1 pl. S. [Library of useful stories.] New York: D. Appleton & Co., 1897.

Croll, James. 551.56 0600

⁶⁷³⁶ Discussions on climate and cosmology. xii,327 p. 1 map. O. New York: D. Appleton & Co., 1886.

551.7-551.9 STRATIGRAPHICAL AND STRUCTURAL GEOLOGY

Geikie, James. 551.79 P500

⁶⁷³³ The great ice age and its relation to the antiquity of man. Third edition, largely rewritten. xxviii,850 p. 78 il. 1 pl. 18 maps. O. New York: D. Appleton & Co., 1895.

Darwin, Charles. 551.96 0900

⁶⁷³² The structure and distribution of coral reefs. Third edition, with an appendix by Prof. T. G. Bonney. xv,344 p. il. 3 maps. O. New York: D. Appleton & Co., 1889.

The appendix is entitled: Summary of the principal contributions to the history of coral reefs since the year 1874.

552 PETROGRAPHY

Merrill, George Perkins.

552 P700

⁵⁹⁰⁴ A treatise on rocks, rock-weathering and soils. xx,411 p. 42 il. 25 pl. O. New York: Macmillan Co., 1897.

553 ECONOMIC GEOLOGY

Tarr, Ralph Stockman.

553 P300

⁵⁵⁸² Economic geology of the United States, with briefer mention of foreign mineral products. [Second edition.] xx,[2],525 p. 27 il. 2 pl. 2 tables. O. New York: Macmillan & Co., 1895.

Phillips, John Arthur.

553.1 P600

⁴⁸⁴⁸ A treatise on ore deposits. Second edition, rewritten and greatly enlarged by Henry Louis. xxii,[2],943 p. 128 il. O. London: Macmillan & Co., 1896.

Thorpe, [Thomas Edward], *editor*.

553.2 N800

¹²¹²⁵ Coal: its history and uses. By Professors Green, Miall, Thorpe, Rücker, and Marshall. xii,363 p. il. O. London: Macmillan & Co., 1878.

Contents: 1-2. The geology of coal. 3. Coal plants. 4. Animals of the coal measures. 5-6. The chemistry of coal. 7. Coal as a source of warmth. 8. Coal as a source of power. 9-10. The coal question.

Martin, Edward Alfred.

553.2 P600

⁸³⁹³ The story of a piece of coal. What it is, whence it comes, and whither it goes. 168 p. 38 il. 1 pl. S. [Library of useful stories.] New York: D. Appleton & Co., 1896.

Nicolls, William Jasper.

553.23 P700

¹²²⁰⁵ The story of American coals. 405 p. 1 pl. O. Philadelphia: J. B. Lippincott Co., 1897.

Davies, David Christopher.

553.6 P200

¹³⁷¹⁸ A treatise on earthy and other minerals and mining. By D. C. Davies. Third edition, thoroughly revised and enlarged by his son E. Henry Davies. xviii,394 p. 76 il. D. London: C. Lockwood & Son, 1892.

557 GEOLOGY OF NORTH AMERICA

Miller, Samuel Almond.**L557 O900**

¹⁶⁸⁸ North American geology and palæontology. . . . 664 p. 1194 il.
Q. Cincinnati, Ohio, 1889.

560 PALEONTOLOGY

Williams, Henry Shaler.**560.2 P500**

¹⁸⁶⁷⁴ Geological biology. An introduction to the geological history of organisms. xix,395 p. 120 il. O. New York: H. Holt & Co., 1895.

Woods, Henry.**562 P600**

¹³⁰⁵⁵ Elementary palæontology. Invertebrate. Second edition. xiii, 296 p. 112 il. D. [Cambridge natural science manuals.] Cambridge: University Press, 1896.

"List of palæontological works", p. 272-285.

Hutchinson, Henry Neville.**566 P300**

⁶⁸⁰⁹ Extinct monsters. A popular account of some of the larger forms of ancient animal life. With illustrations by J. Smit and others. . . . [Second edition.] xxii,270 p. 59 il. 26 pl. O. New York: D. Appleton & Co., pref. 1893.

Hutchinson, Henry Neville.**566 P400**

²¹¹ Creatures of other days. xxiv,270 p. 79 il. 22 pl. 2 por. O. New York: D. Appleton & Co., 1894.

570 NATURAL SCIENCES

570.1-570.9 GENERAL WORKS

- Letourneau, Charles.** 570.2 N600
⁴⁴⁹⁸ Biology. Translated from the French. New edition. xi,480 p.
 83 il. O. London: Chapman & Hall, 1890.
- McAlpine, Daniel, & McAlpine, A. N.** L570.2 O001
³⁶²⁹ Biological atlas: a guide to the practical study of plants and animals. . . . With accompanying text containing arrangement and explanation, equivalent terms, glossary and classification. ix,49 p. 24 pl. sq. F. Edinburgh: W. & A. K. Johnston, 1881.
- Sedgwick, William Thompson, & Wilson, Edmund B.** 570.2 O600
¹⁸³⁹ General biology. Part 1. Introductory. vii,193 p. 89 il. O. (American science series.) New York: H. Holt & Co., 1889.
- Parker, Thomas Jeffery.** 570.2 P700
⁸⁹³¹ Lessons in elementary biology. [Third edition.] xxiii,503 p. 127 il. D. [Macmillan's manuals for students.] London: Macmillan & Co., 1897.
- Spencer, Herbert.** 570.2 P800
¹⁷⁷⁰² The principles of biology. Revised and enlarged edition. 2 vol. il. O. New York: D. Appleton & Co., 1898.
 Vol. 2 is reprinted from first edition, c. 1867.
- Naturalists' directory.** 570.3 2
¹³⁰⁹⁰ The Naturalists' directory. Containing the names, addresses, special departments of study, etc., of professional and amateur naturalists, chemists, physicists, astronomers, etc., etc., of the United States and Canada. . . . [1877]. Continued from 1898. D. Boston 1877-.
 Edited by Samuel E. Cassino.
 Vol. for 1877 has slight variations in the title; published in Salem, Mass.
- Stormonth, James.** 570.3 Ng00
¹⁰¹⁴ A manual of scientific terms: pronouncing, etymological, and explanatory; chiefly comprising terms in botany, natural history, anatomy, medicine, and veterinary science: with an appendix of specific names. . . . Second edition. xi,488 p. D. Edinburgh: J. Thin, 1894.
- Allen, Grant.** 570.4 A425
¹⁷⁶⁵¹ Flashlights on nature. With 150 illustrations by Frederick Enock. viii,312 p. il. D. London: G. Newnes, 1899.

Gibson, William Hamilton.

L570.4 G352

¹⁰⁰⁹⁵ Strolls by starlight and sunshine. 194 p. il. 1 pl. Q. New York: Harper & Brothers, 1891.

Gibson, William Hamilton.

570.4 G353

¹²⁵²³ My studio neighbors. x, 245 p. il. 1 pl. O. New York: Harper & Brothers, 1898.

Torrey, Bradford.

570.4 T63

¹⁶⁷⁰⁶ A world of green hills. Observations of nature and human nature in the Blue Ridge. [4], 285 p. D. Boston: Houghton, Mifflin & Co., 1898.

Wallace, Alfred Russel.

570.4 W16

³²⁷ Tropical nature and other essays. xiii, [2], 356 p. il. O. London: Macmillan & Co., 1878.

Contents: 1. The climate and physical aspects of the equatorial zone. 2. Equatorial vegetation. 3. Animal life in the tropical forests. 4. Humming-birds: as illustrating the luxuriance of tropical nature. 5. The colours of animals and sexual selection. 6. The colours of plants and the origin of the colour-sense. 7. By-paths in the domain of biology. 8. The distribution of animals as indicating geographical changes.

Buckley, Arabella Burton, [*afterwards* Fisher].

570.9 O800

⁶⁵⁴⁰ A short history of natural science and of the progress of discovery from the time of the Greeks to the present day. . . . Fifth edition. xxix, 509 p. 74 il. 1 table. D. London: E. Stanford, 1894.

Darwin, Charles.

570.91 J600

³¹ Journal of researches into the natural history and geology of the countries visited during the voyage of H. M. S. Beagle round the world, under the command of Capt. Fitz Roy. New edition. x, 519 p. O. New York: D. Appleton & Co., 1878.

Thomson, Sir Charles Wyville.

570.91 N600

⁴⁵ . The voyage of the "Challenger." The Atlantic. A preliminary account of the general results of the exploring voyage of H. M. S. "Challenger" during the year 1873 and the early part of the year 1876. 2 vol. il. pl. por. maps, tables. O. New York: Harper & Brothers, 1878.

Moseley, Henry Nottidge.

570.91 N604

³⁷⁰² Notes by a naturalist on the "Challenger", being an account of various observations made during the voyage of H. M. S. "Challenger" round the world, in the years 1872-1876, xvi, 620 p. il. 2 pl. 1 map. O. London: Macmillan & Co., 1879.

Agassiz, Alexander.**L570.91 0001**

⁴⁵⁷ A contribution to American thalassography. Three cruises of the United States Coast and Geodetic Survey steamer "Blake" in the Gulf of Mexico, in the Caribbean Sea, and along the Atlantic coast of the United States, from 1877 to 1880. 2 vol. il. pl. maps, tables. Q. Boston: Houghton, Mifflin & Co., 1888.

Belt, Thomas.**570.9728 N300**

³⁶⁹⁹ The naturalist in Nicaragua. A narrative of a residence at the gold mines of Chontales; journeys in the savannahs and forests; with observations on animals and plants in reference to the theory of evolution of living forms. Second edition. . . . xxxii, 403 p. il. 4 pl. 1 por. 1 map. D. London: E. Bumpus, 1888.

Muir, John.**570.9794 P400**

¹⁴²²⁶ The mountains of California. xiii, [2], 381 p. il. 1 pl. D. New York: Century Co., 1898.

Rodway, James.**570.988 P500**

¹⁰⁹²² In the Guiana forest. Studies of nature in relation to the struggle for life. With introduction by Grant Allen. Second edition. xxiii, 242 p. 16 pl. D. London: T. Fisher Unwin, 1895.

Forbes, Henry O.**570.991 0300**

¹⁶⁹¹ A naturalist's wanderings in the Eastern archipelago. A narrative of travel and exploration from 1878 to 1883. xix, [1], 536 p. 65 il. 22 pl. 6 maps. O. New York: Harper & Brothers, 1885.

571-573 ANTHROPOLOGY AND ETHNOLOGY

Lubbock, Sir John.**571.02 M900**

⁶⁷⁵⁴ Pre-historic times, as illustrated by ancient remains, and the manners and customs of modern savages. Fifth edition. xxvii, [1], 637 p. 228 il. 3 pl. 1 map. O. London: Williams & Norgate, 1890.

Clodd, Edward.**571.02 P500**

⁷⁸¹⁰ The story of "primitive" man. 190 p. 88 il. 1 pl. S. (Library of useful stories.) New York: D. Appleton & Co., 1895.

Starr, Frederick.**571.02 P502**

¹⁶²¹⁵ Some first steps in human progress. 305 p. 33 il. 1 pl. D. (Chautauqua Reading Circle literature.) Meadville, Penna.: Flood & Vincent, 1895.

Hutchinson, Henry Neville. 571.02 P600

⁷²⁸² Prehistoric man and beast. xxii,298 p. 10 pl. O. New York: D. Appleton & Co., 1897.

Haddon, Alfred Cort. 571.04 H12

¹⁶⁷⁵⁶ The study of man. xxv,410 p. 40 il. 8 pl. O. [Science series.] New York: G. P. Putnam's Sons, 1898.

Contents: 1. Measurements and their importance in anthropology. 2. Hair and eye colour. 3. Value of head-form in anthropology. 4. The nose. 5. The ethnography of the Dordogne district. 6. The evolution of the cart. 7. The origin of the Irish jaunting car. 8. Toys and games: cat's cradle and kites. 9. Toys and games: tops and the tug-of-war. 10. The bull-roarer. 11. The singing games of children. 12. "London Bridge": foundation sacrifice. 13. "Draw a pail of water": water worship. 14. Courting games. 15. Funeral games. 16. Practical suggestions for conducting ethnographical investigations in the British Islands.

Windle, Bertram Coghill Alan. 571.0942 P700

⁸⁴⁰⁸ Life in early Britain. Being an account of the early inhabitants of this island and the memorials which they have left behind them. xv,244 p. 67 il. 1 map. D. New York: G. P. Putnam's Sons, 1897.

Munro, Robert. 571.09439 P500

³²⁵⁹ Rambles and studies in Bosnia-Herzegovina and Dalmatia. With an account of the proceedings of the Congress of Archæologists and Anthropologists held in Sarajevo, August, 1894. xx,395 p. 144 il. 32 pl. O. Edinburgh: W. Blackwood & Sons, 1895.

Worsaae, Jens Jacob Asmussen. 571.0948 O001

¹²³⁷⁶ The pre-history of the North, based on contemporary memorials. Translated, with a brief memoir of the author, by H. F. Morland Simpson. xxx,206 p. 19 il. 1 map. D. London: Trübner & Co., 1886.

Worsaae, Jens Jacob Asmussen. 571.0948 O200

¹²⁴⁶² The industrial arts of Denmark from the earliest times to the Danish conquest of England. 2 parts in 1. il. map. D. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, 1882.

Nadaillac, [Jean François Albert du Pouget,] 571.097 O400

¹⁹⁵ *Marquis de.*

Pre-historic America. Translated by N. d'Anvers. Edited by W. H. Dall. [ix],566 p. 219 il. O. New York: G. P. Putnam's Sons, 1884.

Haddon, Arthur Cort.**571.7 P500**

¹³⁰⁶² Evolution in art: as illustrated by the life-histories of designs. xviii,[2],364 p. il. D. [Contemporary science series, vol. 30.] London: W. Scott, 1895.

Contents: Introduction. The decorative art of British New Guinea: as an example of the method of study. The material of which patterns are made. The reasons for which objects are decorated. The scientific method of studying decorative art.

Grosse, Ernst.**571.7 P700**

⁷⁶³⁹ The beginnings of art. xiv,327 p. 32 il. 3 pl. D. [Anthropological series.] New York: D. Appleton & Co., 1897, pref. 1893.

Peschel, Oscar.**572.02 N400**

¹⁹⁹ The races of man, and their geographical distribution. From the German. xiv,[2],528 p. il. O. New York: D. Appleton & Co., 1876.

Quatrefages [de Bréau], Armand de.**572.02 N700**

⁹⁴⁶⁵ The human species. x,498 p. D. (International scientific series, vol. 27.) New York: D. Appleton & Co., 1895.

Taylor, Isaac.**572.02 O900**

⁴¹⁸⁶ The origin of the Aryans. An account of the prehistoric ethnology and civilisation of Europe. xi,339 p. 30 il. D. [Contemporary science series.] London: W. Scott, pref. 1889.

Contents: 1. The Aryan controversy. 2. The prehistoric races of Europe. 3. The neolithic culture. 4. The Aryan race. 5. The evolution of Aryan speech. 6. The Aryan mythology.

Gerland, Georg [Karl Cornelius].**L572.02 P200**

⁴¹⁴¹ Atlas der Völkerkunde. 15 p. 15 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 7.) Gotha: J. Perthes, 1892.

Ratzel, Friedrich.**L572.02 P400**

⁷⁹⁰⁷ The history of mankind. Translated from the second German edition by A. J. Butler. With an introduction by E. B. Tylor. 3 vol. il. pl. maps. Q. London: Macmillan & Co., 1896-1898.

Keane, Augustus Henry.**572.02 P600**

⁸⁵⁹¹ Ethnology. In two parts: I. Fundamental ethnical problems. II. The primary ethnical groups. Second edition revised. xxx, 442 p. il. O. [Cambridge geographical series.] Cambridge: University Press, 1896.

Ripley, William Zebina.

572.94 P900

¹⁹⁰⁸⁹ The races of Europe. A sociological study. Accompanied by a supplementary bibliography of the anthropology and ethnology of Europe, published by the Public Library of the City of Boston. [2 vol.] il. pl. of por. maps. O. (Lowell Institute lectures.) New York: D. Appleton & Co., 1899.

[Vol. 2] is the bibliography, and has also been published separately under the title: A selected bibliography of the anthropology and ethnology of Europe; this has shelf number **016.572 R48**

"Special list of authorities on acclimatization", [vol. 1], p. 589-590.

Short, John Thomas.

572.97 N900

¹⁰¹³ The North Americans of antiquity. Their origin, migrations, and type of civilization considered. 544 p. il. O. New York: Harper & Brothers, 1880.

Brinton, Daniel Garrison.

572.97 P100

³³⁷² The American race: a linguistic classification and ethnographic description of the native tribes of North and South America. 392 p. O. New York: N. D. C. Hodges, 1891.

Im Thurn, Everard Ferdinand.

572.988 O300

¹⁸⁶¹⁹ Among the Indians of Guiana. Being sketches chiefly anthropologic from the interior of British Guiana. xvi, 445 p. 43 il. 10 pl. 1 map. O. London: Kegan Paul, Trench, & Co., 1883.

Tylor, Edward Burnett.

573.02 O100

⁶³²⁶ Anthropology. An introduction to the study of man and civilization. xv, 448 p. 78 il. D. (International scientific series, vol. 62.) New York: D. Appleton & Co., 1896, pref. 1881.

Shaler, Nathaniel Southgate.

573.4 P100

⁴³⁹⁷ Nature and man in America. xiv, 290 p. D. New York: C. Scribner's Sons, 1891.

575 EVOLUTION**Haeckel, Ernst.**

575 N900

⁴⁶³ The evolution of man: a popular exposition of the principal points of human ontogeny and phylogeny. From the German. 2 vol. il. pl. O. New York: D. Appleton & Co., 1886.

Wilson, Andrew, F. R. S. E.

575 O200

¹⁵³⁴ Chapters on evolution. xv, 383 p. 259 il. D. New York: G. P. Putnam's Sons, 1883.

Eimer, Gustav Heinrich Theodor.**575 O801**

⁹¹⁷⁷ Organic evolution as the result of the inheritance of acquired characters according to the laws of organic growth. Translated by J. T. Cunningham. xxviii, 435 p. 6 il. O. London: Macmillan & Co., 1890.

Haeckel, Ernst.**575 O901**

¹³⁶²⁴ The history of creation; or, The development of the earth and its inhabitants by the action of natural causes. A popular exposition of the doctrine of evolution in general, and of that of Darwin, Goethe, and Lamarck in particular. From the eighth German edition. The translation revised by E. Ray Lankester. Fourth edition. 2 vol. il. pl. map. O. London: Kegan Paul, ... & Co., 1892.

Brooklyn Ethical Association.**575 P101**

⁶⁵⁹⁹ Evolution in science, philosophy, and art. Popular lectures and discussions before the Brooklyn Ethical Association. ix, 475 p. 6 il. 3 por. O. New York: D. Appleton & Co., 1891.
"Collateral readings recommended", at the beginning of each paper.

Weismann, August.**575 P102**

¹¹²²⁶ Essays upon heredity and kindred biological problems. Edited by Edward B. Poulton, Selmar Schönland, and Arthur E. Shipley. Authorised translation.—Second edition. 2 vol. il. D. Oxford: Clarendon Press, 1891–1892.

Vol. 2 is in first edition.

Contents: Vol. 1. 1. The duration of life, 1881. 2. On heredity, 1883. 3. Life and death, 1883. 4. The continuity of the germ-plasm as the foundation of a theory of heredity, 1885. 5. The significance of sexual reproduction in the theory of natural selection, 1886. 6. On the number of polar bodies and their significance in heredity, 1887. 7. On the supposed botanical proofs of the transmission of acquired characters, 1888. 8. The supposed transmission of mutilations, 1888. Vol. 2. 9. Retrogressive development in nature, 1886. 10. Thoughts upon the musical sense in animals and man, 1889. 11. Remarks on certain problems of the day, 1890. 12. Amphimixis or the essential meaning of conjugation and sexual reproduction, 1891.

Romanes, George John.**575 P201**

¹¹³¹⁴ Darwin, and after Darwin. An exposition of the Darwinian theory and a discussion of post-Darwinian questions. . . . 3 vol. il. pl. por. facsim. O. Chicago: Open Court Publishing Co., 1892–1897.

Contents: Vol. 1. The Darwinian theory. Vol. 2. Post-Darwinian questions. Heredity and utility. Vol. 3. Post-Darwinian questions. Isolation and physiological selection.

Vol. 2 and 3 edited by C. Lloyd Morgan.

Clodd, Edward.**575 P401**

²²¹⁷ A primer of evolution. viii, 186 p. il. 1 pl. S. New York: Longmans, Green, & Co., 1895.

Jordan, David Starr.**575 P800**

¹⁶⁶²³ Foot-notes to evolution. A series of popular addresses on the evolution of life. With supplementary essays by Edwin Grant Conklin, Frank Mace McFarland, James Perrin Smith. xviii, 392 p. il. 6 pl. D. New York: D. Appleton & Co., 1898.

Contents: 1. The kinship of life. 2. Evolution: what it is and what it is not. 3. The elements of organic evolution. 4. Conklin, E. G. The factors of evolution from the standpoint of embryology. 5. The heredity of Richard Roe. 6. McFarland, F. M. The physical basis of heredity. 7. The distribution of species. 8. Latitude and vertebræ. 9. Smith, J. P. Evolution of fossil cephalopoda. 10. The evolution of the mind. 11. Degeneration. 12. Hereditary inefficiency. 13. The woman of evolution and the woman of pessimism. 14. The stability of truth. 15. The struggle for realities.

Weismann, August.**575.1 N500**

⁴⁸² Studies in the theory of descent. With notes and additions by the author. Translated and edited, with notes, by Raphael Meldola. With a prefatory notice by Charles Darwin. 2 vol. paged continuously; vol. 1: xxxvi, 1-400 p.; vol. 2: 401-729 p.; pl. O. London: Sampson Low, ... , & Rivington, 1882.

Contents: On the seasonal dimorphism of butterflies. — On the final causes of transformation: 1. The origin of the markings of caterpillars. 2. On phyletic parallelism in metamorphic species. 3. The transformation of the Mexican axolotl into amblystoma. 4. On the mechanical conception of nature.

Romanes, George John.**575.1 O600**

¹⁶³¹⁰ An examination of Weismannism. ix, 221 p. 1 por. O. Chicago: Open Court Publishing Co., 1893.

Contents: 1. Statement of Weismann's system up to the year 1886. 2. Later additions to Weismann's system up to the year 1892. 3. Weismann's Theory of heredity (1891). 4. Examination of Weismann's Theory of evolution. 5. Weismannism up to date (1893). Appendix 1. On germ-plasm. 2. On teleonomy.

Galton, Francis.**575.1 O900**

⁹⁴¹³ Natural inheritance. ix, [2], 259 p. 16 il. O. London: Macmillan & Co., 1889.

Weismann, August.**575.1 P201**

¹²²⁹⁶ The germ-plasm: a theory of heredity. Translated by W. Newton Parker, and Harriet Rönnfeldt. xxii, [2], 477 p. 24 il. D. [Contemporary science series, vol. 22.] London: W. Scott, 1893.

Darwin, Charles.**575.2 N600**

¹⁵ The variation of animals and plants under domestication. Second edition, revised. 2 vol. il. O. New York: D. Appleton & Co., 1876.

Contains a chapter: The provisional hypothesis of pangenesis.

Wallace, Alfred Russel.

575.4 N100

³⁹² Contributions to the theory of natural selection. A series of essays. Second edition, with corrections. . . . xvi, 384 p. D. London: Macmillan & Co., 1871.

Wallace, Alfred Russel.

575.4 O900

¹⁵³⁷ Darwinism. An exposition of the theory of natural selection, with some of its applications. xvi, 494 p. 37 il. 1 por. 1 map. D. London: Macmillan & Co., 1889.

Darwin, Charles.

575.5 N400

¹⁶¹ The descent of man, and selection in relation to sex. Second edition, revised xvi, 688 p. 78 il. D. London: J. Murray, 1874.

576 ORIGINS AND BEGINNINGS OF LIFE

Hertwig, Oscar.

576.3 P200

¹²⁵⁴⁹ The cell. Outlines of general anatomy and physiology. Translated by M. Campbell, and edited by Henry Johnstone Campbell. xvi, 368 p. 168 il. O. London: Swan Sonnenschein & Co., 1895.
"Literature," at the end of each chapter.

Wilson, Edmund Beecher.

576.3 P600

⁵⁶³² The cell in development and inheritance. xvi, 371 p. 142 il. O. (COLUMBIA UNIVERSITY. Biological series, vol. 4.) New York: Macmillan Co., 1896.

With bibliographical references at the end of each chapter.

578 MICROSCOPY

Stokes, Alfred Cheatham.

578.02 P400

¹⁸⁰⁷⁹ Microscopical praxis: or, Simple methods of ascertaining the properties of various microscopical accessories. xv, 244 p. il. 1 pl. D. Portland, Conn.: E. F. Bigelow, 1894.

Griffith, John William, & Henfrey, Arthur.

578.03 O300

¹³⁶⁹¹ The micrographic dictionary; a guide to the examination and investigation of the structure and nature of microscopic objects. Fourth edition. Edited by J. W. Griffith, assisted by the Rev. M. J. Berkeley, and T. Rupert Jones. 2 vol. in 1. il. pl. O. London: J. Van Voorst, 1883.

Vol. 1, text; vol. 2, plates.

Zimmermann, Albrecht.

578.8 P300

- ¹²⁰⁹³ Botanical microtechnique. A hand-book of methods for the preparation, staining, and microscopical investigation of vegetable structures. Translated from the German by James Ellis Humphrey. xii,296 p. 63 il. O. New York: H. Holt & Co., 1893.
"Literature", p. 265-283.

Lee, Arthur Bolles.

578.9 P601

- ⁹³⁷⁹ The microtometist's vade-mecum. A hand book of the methods of microscopic anatomy. Fourth edition. xii,536 p. O. London: J. & A. Churchill, 1896.

580 BOTANY

580.1-580.9 GENERAL WORKS

Henfrey, Arthur.

580.2 N800

- ²²⁶³ An elementary course of botany, structural, physiological, and systematic. Third edition. By Maxwell T. Masters. xv,741 p. 618 il. D. London: J. Van Voorst, 1878.

Gray, Asa.

580.2 N901

- ¹⁶⁷⁰² Structural botany, or, Organography on the basis of morphology. To which is added the principles of taxonomy and phytography, and a glossary of botanical terms. (Sixth edition.) xii,442 p. 695 il. O. (Gray's botanical text-book, vol. 1.) New York: American Book Co., c. 1879.

Behrens, Wilhelm Julius.

580.2 O200

- ¹⁷⁶⁷² Text-book of general botany. Translation from the second German edition. Revised by Patrick Geddes. viii,374 p. 408 il. 4 tables. O. Edinburgh: Y. J. Pentland, 1885.

Kerner von Marilaun, Anton.

L580.2 O700

- ⁶³⁰⁸ The natural history of plants: their forms, growth, reproduction, and distribution. Translated and edited by F. W. Oliver, with the assistance of Marian Busk and Mary F. Ewart. 2 vol. in 4. il. pl. Q. New York: H. Holt & Co., 1895.

Gray, Asa.

580.2 O702

- ¹³⁰²⁶ Gray's Lessons in botany. Revised edition. The elements of botany for beginners and for schools. 226 p. 589 il. O. New York: American Book Co., c. 1887.

Published with Gray, A. Field, forest, and garden botany, under the title: Gray's school and field book of botany.

Gray, Asa.**580.2 O702**

¹³⁰²⁷ Field, forest and garden botany. A simple introduction to the common plants of the United States east of the 100th meridian, both wild and cultivated. Revised and extended by L. H. Bailey. 519 p. O. New York: American Book Co., c. 1895.

Published with Gray, A. Gray's *Lessons in botany*, under the title: Gray's school and field book of botany.

[Moore], Jane Hancox, [born] Newell.**580.2 O800**

¹⁶⁹³⁷ Outlines of lessons in botany. For the use of teachers, or mothers studying with their children. By Jane H. Newell. Illustrated by H. P. Symmes. 2 vol. il. pl. D. Boston, U. S. A.: Ginn & Co., 1893-1898.

Vol. 1 published in 1898, c. 1888.

Aveling, Edward [Bibbins].**580.2 P100**

⁴⁵²⁰ An introduction to the study of botany. With a glossary of over 600 words. iv, 363 p. 271 il. D. [Introductory science textbooks.] London: Swan Sonnenschein & Co., 1891.

Strasburger, Eduard, & others.**580.2 P500**

¹³⁹⁶⁰ A text-book of botany by Dr. E. Strasburger, Dr. Fritz Noll, Dr. H. Schenck, Dr. A. F. W. Schimper. Translated from the German by H. C. Porter. ix, [1], 632 p. 594 il. O. London: Macmillan & Co., 1898.

Hooker, Sir Joseph Dalton.**580.2 P600**

⁴⁸⁷² Botany. Third edition, revised and corrected. 129 p. 68 il. S. (Science primers, no. 8.) New York: American Book Co., [1896].

Loudon, [John Claudius].**580.3 L500**

⁴³³⁵ Loudon's encyclopædia of plants; comprising the specific character, description, culture, history, application in the arts, and every other desirable particular respecting all the plants indigenous to, or introduced into Britain. Edited by Mrs. Loudon, assisted by George Don and David Wooster. . . . xxii, 1574 p. il. O. London: Longmans, Green, & Co., 1880.

Allen, Grant.**580.4 A425**

⁶⁸⁹³ Flowers and their pedigrees. [6], 266 p. 54 il. D. New York: D. Appleton & Co., 1884.

581-581.8 PHYSIOLOGY AND ANATOMY

- Sachs, Julius von.** 581 0200
¹⁰⁷³⁰ Outlines in classification and special morphology of plants. By Dr. K. Goebel. A new edition of Sachs' Text-book of botany, book II. Authorised English translation by Henry E. F. Garnsey. Revised by Isaac Bayley Balfour. xii,515 p. 407 il. O. Oxford: Clarendon Press, 1887.
- Sachs, Julius von.** 581 0201
¹³⁸²⁵ Text-book of botany, morphological and physiological. Edited, with an appendix, by Sidney H. Vines. Second edition. xii, 980 p. 492 il. O. Oxford: Clarendon Press, 1882.
- Massee, George.** 581 P100
⁴⁴⁹⁷ The plant world: its past, present, and future. An introduction to the study of botany. x,212 p. 56 il. D. [Whittaker's library of popular science.] London: Whittaker & Co., 1891.
- Massee, George.** 581 P101
⁵²⁹³ The evolution of plant life. Lower forms. viii,242 p. 38 il. D. [University extension series.] London: Methuen & Co., 1891.
- Allen, Grant.** 581 P600
⁶⁰⁵⁹ The story of the plants. 213 p. 49 il. S. [Library of useful stories.] New York: D. Appleton & Co., 1896.
- Arthur, Joseph Charles, & MacDougal, Daniel Trembly.** 581 P800
¹¹⁵⁷⁵ Living plants and their properties. A collection of essays. ix, 234 p. il. 1 pl. O. New York: Baker & Taylor, 1898.
- Coulter, John Merle.** 581 P900
²⁰⁰³⁰ Plant relations. A first book of botany. vii,264 p. 206 il. O. (Twentieth century text-book.) New York: D. Appleton & Co., 1899.
- Darwin, Francis, & Acton, E. Hamilton.** 581.1 P500
⁹¹⁹⁶ Practical physiology of plants. Second edition. xix,[3],340 p. 45 il. D. [Cambridge natural science manuals. Biological series.] Cambridge: University Press, 1895.
- Detmer, Wilhelm.** 581.1 P501
¹⁸⁷⁷⁷ Practical plant physiology. An introduction to original research for students and teachers of natural science, medicine, agriculture and forestry. Translated from the second German edition by S. A. Moor. xix,555 p. 184 il. O. London: Swan Sonnenschein & Co., 1898.

- Darwin, Charles.** 581.13 N500
¹⁶ Insectivorous plants. x,462 p. 30 il. O. New York: D. Appleton & Co., 1875.
- Allen, Grant.** 581.157 O200
¹⁷⁵³⁴ The colours of flowers as illustrated in the British flora. vi,119 p. 45 il. D. (Nature series.) London: Macmillan & Co., 1882.
- Darwin, Charles.** 581.17 O100
¹⁴⁵⁵⁹ The power of movement in plants. By Charles Darwin, assisted by Francis Darwin. x,592 p. 196 il. O. New York: D. Appleton & Co., 1897.
- Ward, Harry Marshall.** 581.23 O900
¹²⁵⁰² Diseases of plants. . . . [4],196 p. 53 il. S. (Romance of science.) London: Society for Promoting Christian Knowledge, 1896.
- Bary, Anton de.** 581.4 N700
⁴³³⁷ Comparative anatomy of the vegetative organs of the phanerogams and ferns. Translated and annotated by F. O. Bower and D. H. Scott. xvi,659 p. 241 il. O. Oxford: Clarendon Press, 1884.
- Darwin, Charles.** 581.5 N600
¹⁴ The movements and habits of climbing plants. Second edition, revised. viii,208 p. 13 il. O. New York: D. Appleton & Co., 1876.
- Taylor, John Ellor.** 581.5 O400
⁸⁹⁴⁶ The sagacity & morality of plants. A sketch of the life & conduct of the vegetable kingdom. A new edition. xi,311 p. 100 il. 1 pl. D. London: Chatto & Windus, 1891.
- Candolle, Alphonse de.** 581.6 O200
⁴³ Origin of cultivated plants. viii,[2],468 p. D. (International scientific series, vol. 48.) New York: D. Appleton & Co., 1885.
- Smith, John.** 581.61 O200
¹⁷⁸⁸⁰ A dictionary of popular names of the plants which furnish the natural and acquired wants of man, in all matters of domestic and general economy. Their history, products, & uses. ix,457 p. O. London: Macmillan & Co., 1882.
- Strasburger, Eduard.** 581.8 O900
⁷⁷⁷⁴ Handbook of practical botany. . . . Edited from the German by W. Hillhouse. Revised by the author and with many additional notes by author and editor. [Fourth edition.] xxiv,425 p. 116 il. O. London: Swan Sonnenschein & Co., 1897.

581.9 GEOGRAPHICAL DISTRIBUTION

Drude, Oscar. L581.9 O700

¹²⁷⁹¹ Atlas der Pflanzenverbreitung. 6 p. 8 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 5.) Gotha: J. Perthes, 1887.

Newhall, Charles Stedman. 581.97 P300

⁶³⁴⁵ The shrubs of northeastern America. 249 p. il. O. New York: G. P. Putnam's Sons, 1895.

Gray, Asa, & others. L581.97 P500

¹⁷⁵²⁸ Synoptical flora of North America: vol. 1.—Part I. Fascicles I and II. Polypetalæ from the ranunculaceæ to the polygalaceæ. (Thalamifloræ et discifloræ.) Edited by Benjamin Lincoln Robinson. 1895–1897. xv,506 p. Q. New York: American Book Co. c. 1895–1897.

Britton, Nathaniel Lord, & Brown, Addison. L581.97 P600

⁵⁶³⁶ An illustrated flora of the northern United States, Canada, and the British possessions, from Newfoundland to the parallel of the southern boundary of Virginia, and from the Atlantic Ocean westward to the 102d meridian. . . . 3 vol. il. Q. New York: C. Scribner's Sons, 1896–1898.

Newhall, Charles Steadman. 581.97 P700

¹⁰²³⁰ The vines of northeastern America. xxx,207 p. il. O. New York: G. P. Putnam's Sons, 1897.

Newhall, Charles Stedman. 581.974 P001

⁴⁴⁶⁵ The trees of northeastern America. Illustrations from original sketches. With an introductory note by Nath. L. Britton. xiv, 250 p. il. O. New York: G. P. Putnam's Sons, 1895, c. 1890.

582-589 SYSTEMATIC BOTANY

Apgar, Austin Craig. 582 P200

¹⁷²³ Trees of the northern United States. Their study, description and determination. For the use of schools 224 p. il. D. New York: American Book Co., c. 1892.

Bennett, Alfred William, & Murray, George. 586 O900

¹²⁷²⁷ A handbook of cryptogamic botany. viii,473 p. 382 il. O. London: Longmans, Green, and Co., 1889.

"Literature" for each class.

Campbell, Douglas Houghton.

586 P500

- ⁴⁴⁶⁰ The structure & development of the mosses & ferns (archegoniatae). viii,544 p. 266 il. O. London: Macmillan & Co., 1895.
Contains a bibliography.

Underwood, Lucien Marcus.

589 P900

- ²⁰⁰¹³ Moulds, mildews and mushrooms. A guide to the systematic study of the fungi and mycetozoa and their literature. v,236 p. 10 pl. D. New York: H. Holt & Co., 1899.

With bibliographical references for each order.

"The geographic distribution of American fungi," with bibliographical references, p. 165-200.

Schneider, Albert.

589.1 P800

- ¹⁷⁷⁸⁴ A guide to the study of lichens. xii,[2],234 p. 11 pl. D. Boston: B. Whidden, 1898.

Cooke, Mordecai Cubitt.

589.2 N400

- ⁵⁷⁰ Fungi: their nature and uses. Edited by the Rev. M. J. Berkeley. xii,299 p. 109 il. D. (International scientific series, vol. 15.) New York: D. Appleton & Co., 1880.

Gibson, William Hamilton.

589.22 P500

- ⁶³¹⁰ Our edible toadstools and mushrooms and how to distinguish them. A selection of thirty native food varieties ... , with simple rules for the identification of poisonous species. x,[2],337 p. il. 30 pl. O. New York: Harper & Brothers, 1895.

Contains a bibliography.

589.9 BACTERIOLOGY

Jørgensen, Alfred.

589.9 P200

- ⁴⁹⁷⁰ Micro-organisms and fermentation. New edition. Translated from the re-written and much enlarged third edition in German by Alex. K. Miller and E. A. Lennholm, and revised by the author. viii,257 p. 56 il. O. London: F. W. Lyon, 1893.

Contains a bibliography of bacteriology.

Woodhead, German Sims.

589.95 P100

- ⁷⁵ Bacteria and their products. With ... an appendix giving a short account of bacteriological methods, and a diagnostic description of the common bacteria. xiii,459 p. 20 il. D. [Contemporary science series.] New York: Scribner & Welford, 1891.

Migula, Walther.

589.95 P200

⁶⁷³⁰ An introduction to practical bacteriology for physicians, chemists and students. Translated by M. Campbell and edited by H. J. Campbell. viii, 247 p. il. D. [Introductory science text-books.] London: Swan Sonnenschein & Co., 1893.

Sternberg, George Miller.

589.95 P301

¹¹⁰⁴⁰ A manual of bacteriology. xii, 886 p. 268 il. 8 pl. O. New York: W. Wood & Co., 1893.
 "Bibliography," p. 769-876.

Conn, Herbert William.

589.95 P706

⁹⁶⁸⁶ The story of germ life. 199 p. 34 il. S. [Library of useful stories.] New York: D. Appleton & Co., 1897.

590 ZOOLOGY

590.1-590.9 GENERAL WORKS

Agassiz, Louis.

590.1 M300

⁸⁰⁸² Methods of study in natural history. Twenty-first edition. viii, 319 p. il. O. Boston: Houghton, Mifflin & Co., 1893.

Brooks, William Keith.

590.1 P900

¹⁷⁸⁸⁵ The foundations of zoölogy. [A course of lectures delivered at Columbia University on the principles of science as illustrated by zoology.] viii, 339 p. O. (COLUMBIA UNIVERSITY. Biological series, vol. 5.) New York: Macmillan Co., 1899.

Contents: 1. Introductory. 2. Huxley, and the problem of the naturalist. 3. Nature and nurture. 4. Lamarck. 5. Migration in its bearings on Lamarckism. 6, part I. Zoölogy, and the philosophy of evolution. 6, part II. A note on the views of Galton and Weismann on inheritance. 7. Galton, and the statistical study of inheritance. 8. Darwin, and the origin of species. 9. Natural selection, and the antiquity of life. 10. Natural selection and natural theology. 11. Paley, and the argument from contrivance. 12. The mechanism of nature. 13. Louis Agassiz and George Berkeley.

Claus, Carl.

590.2 N900

⁸²⁴³ Elementary text-book of zoology. Special part: Mollusca to man. Translated and edited by Adam Sedgwick, with the assistance of F. G. Heathcote. [Sixth edition.] 352 p. 215 il. O. London: Swan Sonnenschein & Co., 1897.

Brehm, Alfred Edmund.**L590.2 P001**

¹²⁵⁷⁰ Brehms Tierleben. Allgemeine Kunde des Tierreichs. Dritte, gänzlich neubearbeitete Auflage. Von Prof. Dr. Pechuel-Loesche. . . . 10 vol. and index. il. pl. por. maps. Q. Leipzig: Bibliographisches Institut, 1890-[1897].

Contents: Vol. 1-3. Brehm, A. E. Die Säugetiere. Unter Mitwirkung von Dr. Wilh. Haacke neubearbeitet von Professor Dr. Pechuel-Loesche. Vol. 4-6. Brehm, A. E. Die Vögel. Unter Mitwirkung von Dr. Wilh. Haacke neubearbeitet von Professor Dr. Pechuel-Loesche. Vol. 7. Brehm, A. E. Die Kriechtiere und Lurche. Neubearbeitet von Professor Dr. O. Boettger und Professor Dr. Pechuel-Loesche. Vol. 8. Brehm, A. E. Die Fische. Unter Mitwirkung von Dr. Wilh. Haacke neubearbeitet von Professor Dr. Pechuel-Loesche. Vol. 9. Taschenberg, E. L. Die Insekten, Tausendfüßer und Spinnen. Vol. 10. Schmidt, O. Die niederen Tiere. Neubearbeitet von Professor Dr. W. Marshall.

Packard, Alpheus Spring.**590.2 P200**

⁶⁰³⁰ Zoology for high schools and colleges. Ninth edition, revised. viii, 722 p. 545 il. 19 pl. O. (American science series.) New York: H. Holt & Co., 1895.

Thomson, J. Arthur.**590.2 P201**

⁹⁰⁸⁶ The study of animal life. Third edition. xii, 375 p. 71 il. D. [University extension manuals.] New York: C. Scribner's Sons, 1896.

"Some of the 'best books' on animal life", p. 351-369.

Lydekker, Richard, & others.**590.2 P701**

⁹⁴⁴² The concise knowledge natural history. [The animal kingdom.] By R. Lydekker; R. Bowdler Sharpe; W. F. Kirby; W. Garstang; B. B. Woodward; F. A. Bather; R. Kirkpatrick; R. I. Pocock; and H. M. Bernard. xvi, 771 p. 530 il. O. [Concise knowledge library.] London: Hutchinson & Co., 1897.

Parker, Thomas Jeffery, & Haswell, William A.**590.2 P702**

¹⁵⁷¹³ A text-book of zoology. 2 vol. il. O. London: Macmillan & Co., 1897.

"Guide to modern zoological literature," vol. 2, p. 651-655.

Sedgwick, Adam, M. A.**590.2 P800**

¹⁵⁸⁶⁴ A student's text-book of zoology. Vol. 1-. il. O. London: Swan Sonnenschein & Co., 1898-.

Lydekker, Richard.**590.4 L98**

¹³⁶⁰⁵ Phases of animal life, past and present. [6], 248 p. 82 il. D. London: Longmans, Green, & Co., 1892.

Mivart, St. George.

590.4 M69

¹²¹²⁰ American types of animal life. viii,374 p. 103 il. D. Boston: Little, Brown & Co., 1894.

Furneaux, William S.

590.7 P600

⁶⁰²⁹ Life in ponds and streams. 406 p. 311 il. 8 pl. D. London: Longmans, Green, & Co., 1896.

Bateman, Gregory C.

590.7 P700

¹⁰⁸⁵³ The vivarium, being a practical guide to the construction, arrangement, and management of vivaria, containing full information as to all reptiles suitable as pets, how and where to obtain them, and how to keep them in health. [4],424 p. il. 6 pl. D. London: L. U. Gill, pref. 1897.

Audubon, Maria R.

590.9205 Ag161

¹¹⁹⁸¹ Audubon and his journals. With zoölogical and other notes by Elliott Coues. 2 vol. pl. por. facsim. O. New York: C. Scribner's Sons, 1897.

591-591.8 PHYSIOLOGY AND ANATOMY

Morgan, Conway Lloyd.

591 P100

⁹²⁷¹ Animal life and intelligence. [Second edition.] xvi,512 p. 40 il. 1 pl. O. London: E. Arnold, 1891.

Griffiths, Arthur Bower.

591.1 P200

¹³⁸ The physiology of the invertebrata. xvi,477,[1] p. 81 il. O. New York: D. Appleton & Co., 1892.

Verworn, Max.

591.1 P701

¹⁹⁷⁵⁸ General physiology. An outline of the science of life. Translated from the second German edition and edited by Frederic S. Lee. xvi,615 p. 285 il. O. London: Macmillan & Co., 1899.
"Bibliography," p. 589-599.

Marey, Etienne Jules.

591.17 O900

¹²²⁶ Movement. Translated by Eric Pritchard. xv,323 p. 204 il. D. (International scientific series, vol. 73.) New York: D. Appleton & Co., 1895.

M'Kendrick, John Gray, & Snodgrass, William.

591.18 P300

³³⁰⁹ The physiology of the senses. xx,318 p. 127 il. D. (University extension manuals.) New York: C. Scribner's Sons, 1893.

Halliburton, William Dobinson.

591.19 P100

⁷⁷⁹⁶ A text-book of chemical physiology and pathology. xx,874 p. 104 il. O. London: Longmans, Green, & Co., 1891.

- Foster, Michael, & Balfour, Francis M.** 591.3 0300
⁸²¹⁶ The elements of embryology. Edited by Adam Sedgwick and Walter Heape. [Second edition revised.] xiv,[2],486 p. 141 il. D. London: Macmillan & Co., 1896, pref. 1883.
- Korschelt, Eugen, & Heider, K.** 591.3 P500
¹⁶⁰⁵⁷ Text-book of the embryology of invertebrates. Translated from the German by Edward L. Mark [and] W. McM. Woodworth. With additions by the authors and translators. . . . xv,[1], 484 p. 225 il. O. London: Swan Sonnenschein & Co., 1895.
 "Literature," at the end of each chapter.
- Lang, Arnold.** 591.4 P101
⁹³¹² Text-book of comparative anatomy [of the invertebrata]. With preface to the English translation by Professor Dr. Ernst Haeckel. Translated into English by Henry M. Bernard and Matilda Bernard. 2 vol. il. O. London: Macmillan & Co., 1891-1896.
 "Literature" in each chapter.
- Davenport, Charles Benedict.** 591.4 P600
⁶⁵²⁴ Experimental morphology. 2 vol. paged continuously; vol. 1: i-xiv,1-280 p.; vol. 2: [2],xa-xb,xv-xviii,281-509 p. il. O. New York: Macmillan Co., 1897-1899.
 "Literature" at the end of each chapter.
 Contents: Vol. 1. Effect of chemical and physical agents upon protoplasm. Vol. 2. Effect of chemical and physical agents upon growth.
- Wiedersheim, Robert.** 591.4 P700
⁹⁰⁹⁵ Elements of the comparative anatomy of vertebrates. Adapted from the German of Dr. Robert Wiedersheim, by W. N. Parker. Second edition (founded on the third German edition). xvi,488 p. 307 il. O. London: Macmillan & Co., 1897.
 "Bibliography", p. 389-480.
- Holder, Charles Frederick.** 591.5 0800
¹¹¹⁴⁰ Marvels of animal life. x,240 p. 32 pl. D. (Marvels of animal life series.) New York: C. Scribner's Sons, 1895, c. 1888.
- Cornish, C. J.** 591.5 P600
⁷⁷⁶⁴ Animals at work and play. Their activities and emotions. xi, 323 p. 12 pl. O. New York: Macmillan & Co., 1896.
- Morgan, Conway Lloyd.** 591.5 P602
⁷⁷⁹⁵ Habit and instinct. [6],351 p. 1 pl. O. London: E. Arnold, 1896.

Thompson, Ernest [Evan] Seton.

591.5 P800

¹⁶²⁹³ Wild animals I have known. Being the personal histories of Lobo ... and Redruff. 358 p. il. 29 pl. paged in. O. New York City: C. Scribner's Sons, 1898.

Mathews, Ferdinand Schuyler.

591.5 P801

¹⁶⁴⁹⁵ Familiar life in field and forest. The animals, birds, frogs and salamanders. xvi, 284 p. il. 26 pl. D. New York: D. Appleton & Co., 1898.

Mills, Wesley.

591.5 P802

¹⁶⁵¹⁹ The nature & development of animal intelligence. xii, 307 p. O. New York: Macmillan Co., 1898.

Darwin, Charles.

591.51 N300

¹² The expression of the emotions in man and animals. v, [2], 374 p. il. 7 pl. O. New York: D. Appleton & Co., 1873.

Romanes, George John.

591.51 O100

⁶²⁴ Animal intelligence. xiv, 520 p. D. (International scientific series, vol. 44.) New York: D. Appleton & Co., 1883.

Romanes, George John.

591.51 O300

²¹³ Mental evolution in animals. With A posthumous essay on instinct. By Charles Darwin. [2], 411 p. 3 il. 1 table. O. London: Kegan Paul, Trench, & Co., 1883.

Lubbock, Sir John, Bart.

591.51 O800

⁶²⁶ On the senses, instincts, and intelligence of animals, with special reference to insects. xxix, 292 p. 118 il. D. (International scientific series, vol. 64.) New York: D. Appleton & Co., 1888.

Groos, Karl.

591.51 P601

¹⁷⁰⁰² The play of animals. Translated with the author's co-operation by Elizabeth L. Baldwin. With a preface and an appendix by J. Mark Baldwin. xxvi, 341 p. D. New York: D. Appleton & Co., c. 1898.

Poulton, Edward Bagnall.

591.57 P001

⁸⁸⁹⁶ The colours of animals. Their meaning and use, especially considered in the case of insects. xiii, [2], 360 p. 66 il. 1 pl. 1 table. D. (International scientific series, vol. 67.) New York: D. Appleton & Co., 1890.

Schäfer, Edward Albert.

591.8 P700

¹⁸⁰¹³ A course of practical histology. Second edition. xi, 298 p. 59 il. D. Philadelphia: Lea Brothers & Co., 1897.

Schäfer, Edward Albert.

591.8 P800

¹⁷⁷⁰⁹ The essentials of histology, descriptive and practical. . . . Fifth edition. xi,359 p. 392 il. O. London: Longmans, Green, & Co., 1898.

591.9 GEOGRAPHICAL DISTRIBUTION

Wallace, Alfred Russel.

591.9 N600

⁴⁶ The geographical distribution of animals. With a study of the relations of living and extinct faunas as elucidating the past changes of the earth's surface. 2 vol. pl. maps. O. New York: Harper & Brothers, 1876.

Marshall, William.

L591.9 0700

¹²⁷⁹² Atlas der Tierverbreitung. 10 p. 9 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 6.) Gotha: J. Perthes, 1887.

Beddard, Frank Evers.

591.9 P400

¹⁶⁷⁰⁰ A text-book of zoogeography. viii,246 p. il. 5 maps. D. (Cambridge natural science manuals. Biological series.) Cambridge: University Press, 1895.

Lydekker, Richard.

591.9 P600

⁷⁷⁵⁶ A geographical history of mammals. xii,400 p. 82 il. 1 map. O. [Cambridge geographical series.] Cambridge: University Press, 1896.

Wallace, Alfred Russel.

591.922 0001

³⁹⁰ Island life; or, The phenomena and causes of insular faunas and floras, including a revision and attempted solution of the problem of geological climates. xvii,[2],526 p. il. 3 maps. O. London: Macmillan & Co., 1880.

592-595 INVERTEBRATES

McMurrich, James Playfair.

592 P400

⁶¹⁵¹ A text-book of invertebrate morphology. Second edition, revised. vii,661 p. 291 il. O. New York: H. Holt & Co., 1896.

Binet, Alfred. 593 0900

⁶⁴⁸⁷ The psychic life of micro-organisms. A study in experimental psychology. Translated from the French by Thomas McCormack. With a preface by the author written especially for the American edition. xii,120,[2] p. il. D. London: Longmans, Green, & Co., 1889.

Darwin, Charles. 595.1 0100

⁶¹⁰⁹ The formation of vegetable mould, through the action of worms, with observations on their habits. vii,326 p. O. New York: D. Appleton & Co., 1892.

Stebbing, Thomas Roscoe Rede. 595.3 P300

⁶⁴⁶³ A history of crustacea. Recent malacostraca. xvii,466 p. 32 il. 19 pl. D. (International scientific series, vol. 71.) New York: D. Appleton & Co., 1893.

Huxley, Thomas Henry. 595.37 N900

⁶²⁸ The crayfish. An introduction to the study of zoology. xiv,371 p. 81 il. 1 pl. D. (International scientific series, vol. 28.) New York: D. Appleton & Co., 1880.

Lubbock, Sir John, Bart. 595.7 N300

⁹²⁶³ On the origin and metamorphoses of insects. xvi,108 p. il. 1 pl. D. (Nature series.) London: Macmillan & Co., 1895.

List of the author's memoirs on the annulosa, published in the transactions of various societies, p. viii-x.

Packard, Alpheus Spring. 595.7 0100

¹⁵²⁰ Half hours with insects. viii,384 p. 260 il. 2 pl. O. Boston: Estes & Lauriat, c. 1881.

Saunders, William. 595.7 0300

⁴⁴⁰¹ Insects injurious to fruits. Second edition. 436 p. 440 il. O. Philadelphia: J. B. Lippincott Co., 1889, c. 1883.

McCook, Henry Christopher. 595.7 0400

¹⁵¹⁰ Tenants of an old farm; leaves from the note-book of a naturalist. [Second edition.] [6],iii,460 p. 140 il. D. New York: Fords, Howard, & Hulbert, 1885.

Miall, Louis C. 595.7 P500

⁴⁴⁹⁵ The natural history of aquatic insects. ix,[2],395 p. 116 il. D. London: Macmillan & Co., 1895.

Comstock, John Henry, & Comstock, Anna Botsford. 595.7 P501

¹³⁹⁵³ A manual for the study of insects. Second edition. x,701 p. 797 il. 6 pl. O. Ithaca, N. Y., Comstock Publishing Co., 1897.

Smith, John Bernhard.**595.7 P600**

⁸¹⁴⁰ Economic entomology for the farmer and fruit-grower, and for use as a text-book 481 p. il. 19 pl. O. Philadelphia: J. B. Lippincott Co., 1896.

Comstock, John Henry.**595.7 P700**

⁷⁸⁴⁹ Insect life. An introduction to nature-study. . . . [6], 349 p. 296 il. 6 pl. D. New York: D. Appleton & Co., 1897.

Packard, Alpheus Spring.**595.7 P800**

¹⁵²⁶⁰ A text-book of entomology including the anatomy, physiology, embryology and metamorphoses of insects. For use in agricultural and technical schools . . . as well as by the working entomologist. xvii, 729 p. 654 il. O. New York: Macmillan Co., 1898.
"Literature" scattered through the book.

Hofmann, Ernst.**595.76 P700**

⁹⁴³³ The young beetle-collector's handbook. With an introduction by W. Egmont Kirby. viii, 178 p. 20 pl. D. London: Swan Sonnenschein & Co., 1897.

French, George Hazen.**595.78 P600**

¹⁰⁹¹⁴ The butterflies of the eastern United States. For the use of classes in zoology and private students. New and revised edition. 414 p. 93 il. D. Philadelphia: J. B. Lippincott Co., 1896, c. 1885.

Holland, William Jacob.**L595.78 P800**

¹⁵⁵⁷³ The butterfly book. A popular guide to a knowledge of the butterflies of North America. xx, 382 p. 183 il. 48 pl. Q. New York: Doubleday & McClure Co., 1898.

Lubbock, Sir John, Bart.**595.79 O100**

⁶²⁷ Ants, bees, and wasps. A record of observations on the habits of the social hymenoptera. xix, 448 p. 31 il. 5 pl. D. (International scientific series, vol. 42.) New York: D. Appleton & Co., 1882.

596-599 VERTEBRATES

Jordan, David Starr.**596 N800**

¹⁵⁷³ Manual of the vertebrates of the northern United States, including the district east of the Mississippi River, and north of North Carolina and Tennessee, exclusive of marine species. Fourth edition, revised and enlarged. 406 p. D. Chicago: Jansen, McClurg & Co., 1884, c. 1878.

Dean, Bashford.

597 P500

- ⁹⁸⁴⁵ Fishes, living and fossil. An outline of their forms and probable relationships. xiv,300 p. il. 1 pl. O. (COLUMBIA UNIVERSITY. Biological series, vol. 3.) New York: Macmillan & Co., 1895.
 "Bibliography", p. 231-251.

Willey, Arthur.

597.1 P400

- ⁹⁶⁰⁵ Amphioxus and the ancestry of the vertebrates. With a preface by Henry Fairfield Osborn. xiv,316 p. 135 il. 1 pl. O. (COLUMBIA UNIVERSITY. Biological series, vol. 2.) New York: Macmillan & Co., 1894.
 "References", p. 295-309.

Baird, Spencer Fullerton, Brewer, T. M.,

L598.2 N502

- ¹⁰⁸⁷⁸ & Ridgway, R.
 A history of North American birds. Land birds. 3 vol. il. pl. Q. Boston: Little, Brown, & Co., 1875.

Langille, John Hibbert.

598.2 O400

- ⁵²⁸ Our birds in their haunts: a popular treatise on the birds of eastern North America. 624 p. il. 2 pl. sq. O. Boston: S. E. Cassino & Co., 1884.

Trumbull, Gurdon.

598.2 O800

- ²⁰² Names and portraits of birds which interest gunners, with descriptions in language understood of the people. viii,221 p. 61 il. O. New York: Harper & Brothers, 1888.

Coues, Elliott.

L598.2 P003

- ¹²⁷⁹⁴ Key to North American birds. Containing a concise account of every species of living and fossil bird at present known from the continent north of the Mexican and United States boundary, inclusive of Greenland and Lower California, with which are incorporated General ornithology: an outline of the structure and classification of birds; and Field ornithology, a manual of collecting, preparing, and preserving birds. The fourth edition, exhibiting the new nomenclature of the American Ornithologists' Union, and including descriptions of additional species, etc. xxx,907 p. 561 il. 1 pl. Q. Boston: Estes & Lauriat, 1896, c. 1887.

Mivart, St. George.

598.2 P200

- ⁹¹⁸⁵ Birds: the elements of ornithology. [8],329 p. 170 il. D. London: R. H. Porter, [1892].

- Newton, Alfred.** 598.2 P301
⁵⁹⁵⁷ A dictionary of birds. By Alfred Newton, assisted by Hans Gadow. With contributions from Richard Lydekker, Charles S. Roy, and Robert W. Shufeldt. 4 vol. in 1, paged continuously, il. map. O. London: A. & C. Black, 1893-1896.
- Elliot, Daniel Giraud.** 598.2 P500
¹⁵⁷⁸ North American shore birds. A history of the snipes, sandpipers, plovers and their allies inhabiting the beaches and marshes of the Atlantic and Pacific coasts, the prairies, and the shores of the inland lakes and rivers of the North American continent; A reference book for the naturalist, sportsman and lover of birds. 268 p. 3 il. 71 pl. O. New York: F. P. Harper, 1895.
- Chapman, Frank Michler.** 598.2 P501
⁶⁵⁰⁴ Handbook of birds of eastern North America. . . . Third edition. xiv, 427 p. 115 il. 20 pl. D. New York: D. Appleton & Co., 1896.
- American Ornithologists' Union.** 598.2 P503
¹²⁷²⁸ Check-list of North American birds. Prepared by a committee of the American Ornithologists' Union. Second and revised edition. xi, 372 p. O. New York 1895.
 The members of the committee were: Elliott Coues, J. A. Allen, Robert Ridgway, William Brewster, H. W. Henshaw.
- Headley, F. W.** 598.2 P505
¹³⁵³⁵ The structure and life of birds. xx, 412 p. 77 il. 1 pl. O. London: Macmillan & Co., 1895.
- Nuttall, Thomas.** 598.2 P600
⁵⁶³⁰ A popular handbook of the ornithology of eastern North America. Second revised and annotated edition, by Montague Chamberlain. With additions. 2 vol. il. pl. O. Boston: Little, Brown, & Co., 1896.
- Ridgway, Robert.** 598.2 P604
⁷³⁶¹ A manual of North American birds. Second edition. xiii, 653 p. 62 pl. 1 por. O. Philadelphia: J. B. Lippincott Co., 1896.
- Baskett, James Newton.** 598.2 P700
⁶¹¹⁵ The story of the birds. xxix, 263 p. il. 21 pl. D. (Appleton's home reading books.) New York: D. Appleton & Co., 1897.
- Wright, Mabel Osgood, & Coues, Elliott.** 598.2 P703
⁷⁸³⁴ Citizen Bird. Scenes from bird-life in plain English for beginners. With . . . illustrations by Louis Agassiz Fuertes. xiv, 430 p. il. 1 pl. D. New York: Macmillan Co., 1897.

- Apgar, Austin Craig.** 598.2 P806
¹⁸⁸⁹⁴ Birds of the United States east of the Rocky Mountains. A manual for the identification of species in hand or in the bush. 415 p. il. D. New York: American Book Co., c. 1898.
- Flower, Sir William Henry, & Lydekker, Richard.** 599 P100
¹⁴¹¹⁵ An introduction to the study of mammals, living and extinct. xvi, 763 p. 357 il. O. London: A. & C. Black, 1891.
- Garner, Richard L.** 599.8 P600
⁶⁸⁹⁶ Gorillas and chimpanzees. viii, [2], 271 p. il. 1 por. O. London: Osgood, McIlvaine & Co., 1896.

600 APPLIED SCIENCES

601-609 GENERAL WORKS

Van Cleve, B. Frank.**602 P001**

¹⁸⁵⁷¹ The English and American mechanic: an every-day hand-book for the workshop and the factory. Containing several thousand receipts, rules and tables A new, revised, enlarged and improved edition edited by Emory Edwards. xxv,476 p. il. D. Philadelphia: H. C. Baird & Co., 1893.

Workshop receipts.**603 1**

¹³⁷²⁵ Workshop receipts. Continued from [first series]. il. D. London 1892-.

[First series] edited by Ernest Spon; second series, by Robert Haldane; third-fourth series, by C. G. Warnford Lock.

[First series] is in second edition, revised, published in 1895 under the title: Workshop receipts for the use of manufacturers, mechanics and scientific amateurs.

Knight, Edward Henry.**L603 N201**

⁷³⁰⁴ Knight's American mechanical dictionary. A description of tools, instruments, machines, processes, and engineering; history of inventions; general technological vocabulary; and digest of mechanical appliances in science and the arts. 3 vol. paged continuously; vol. 1: vi,[2],1-944 p.; vol. 2: iv,945-1888 p.; vol. 3: [4], 1889-2839 p. il. pl. Q. Boston: vol. 1-2, Houghton, Osgood & Co., 1880; vol. 3, Hurd & Houghton, 1877.

Knight, Edward Henry.**L603 N202**

⁷³⁰⁵ Knight's new mechanical dictionary. A description of tools, instruments, machines, processes and engineering, with indexical references to technical journals (1876-1880.) viii,960 p. 2549 il. 56 pl. Q. Boston: Houghton, Mifflin & Co., 1884.

Colange, Leo de.**L603 0001**

⁵³⁵¹ The American encyclopedia of commerce, manufactures, commercial law, and finance: 2 vol. paged continuously; vol. 1: vii,1-622 p.; vol. 2: [2],623-1141 p. 502 il. Q. Boston: Estes & Lauriat; vol. 1.: pref. 1881, vol. 2: c. 1880.

Lock, Charles G. Warnford, *editor*.

L603 O200

¹³²¹ Spons' encyclopædia of the industrial arts, manufactures, and raw commercial products. 2 vol. paged continuously; vol 1: viii, 1088 p.; vol. 2: 1089-2142 p. il. Q. London: E. & F. N. Spon, 1882.

Röhrig, Ernst, *editor*.

603 O600

¹³⁴³ Technologisches Wörterbuch: deutsch-englisch-französisch. . . . Vierte verbesserte und . . . vermehrte Auflage. 3 vol. O. Wiesbaden: J. F. Bergmann, 1887-1891.

Vol. 3, revised edition, printed in 1887. — Contains also terms relating to the natural sciences.

Hopkins, Albert Allis, *editor*.

603 P200

¹⁴⁷ The Scientific American cyclopedia of receipts, notes and queries. [4], 708 p. il. O. New York: Munn & Co., 1895.

Appleton's cyclopædia of applied mechanics.

L603 P202

³⁴⁴¹ Appleton's cyclopædia of applied mechanics. Revised . . . edition. A dictionary of mechanical engineering and the mechanical arts. Edited by Park Benjamin. With a supplementary volume (Modern mechanism). 2 vol. and suppl. il. pl. Q. New York: D. Appleton & Co., 1893.

Modern mechanism.

L603 P203

³⁴⁴² Modern mechanism: exhibiting the latest progress in machines, motors, and the transmission of power. Being a supplementary volume to Appleton's cyclopedia of applied mechanics. Edited by Park Benjamin. vi, 924 p. il. 12 pl. Q. New York: D. Appleton & Co., 1892.

Cooley, Arnold James.

L603 P204

⁵⁹²² Cooley's cyclopædia of practical receipts and collateral information in the arts, manufactures, professions, and trades, Designed as a . . . supplement to the pharmacopœia and general book of reference Seventh edition, revised and greatly enlarged by W. North. 2 vol. paged continuously; vol. 1: x, [2], 1-896 p.; vol. 2: [2], 897-1827 p. il. Q. London: J. & A. Churchill, 1892.

Lueger, Otto, *editor*.

L603 P400

⁵⁶⁰⁷ Otto Luegers Lexikon der gesamten Technik und ihrer Hilfswissenschaften. . . . 7 vol. il. Q. Stuttgart: Deutsche Verlags-Anstalt, pref. 1894-[1899].

Bureau of the American Republics.

L603 P700

⁷⁵⁴³ Commercial nomenclature. Published by recommendation of the International American Conference. August 1897. iii, 670 p. F. Washington 1897.

Knight, George H.**608.73 P300**

¹²⁴¹⁵ Patent-Office manual, including the law and practice of cases in the United States Patent Office and the courts holding a revisory relation thereto. Also, an appendix of copyright decisions, etc. [8],655 p. O. Boston: Little, Brown & Co., 1893.

Beckmann, Johann.**609 K600**

⁸²⁶ A history of inventions, discoveries, and origins. Translated from the German, by William Johnston. Fourth edition, ... revised and enlarged by William Francis and J. W. Griffith. 2 vol. por. D. [Bohn's standard library.] London: H. G. Bohn, 1846.

Yeats, John.**609 O700**

¹⁹⁸⁰² Technical, industrial, and trade education. The technical history of commerce; or, The progress of the useful arts. ... Third edition, revised and much enlarged. xxviii,527 p. 1 map in pocket. D. London: G. Philip & Son, [1887?]

Cochrane, Robert, *editor*.**609 P700**

⁶⁷⁴⁹ The romance of industry and invention. 295 p. il. 1 pl. D. Philadelphia: J. B. Lippincott Co., 1897.

Mason, Otis Tufton.**609.1 P500**

¹¹¹⁴⁷ The origins of invention: a study of industry among primitive peoples. 419 p. il. 9 pl. D. [Contemporary science series, vol. 28.] London: W. Scott, 1895.

Jones, Evan Rowland.**609.2 J71**

¹⁷²⁶⁰ Heroes of industry. Biographical sketches. 324 p. 16 por. D. London: Sampson Low, ... & Rivington, 1886.

Smith, George Barnett.**609.2 S648**

¹⁷¹⁹⁹ Leaders of modern industry. Biographical sketches. vi,477 p. D. London: W. H. Allen & Co., 1894.

Contents: The Stephensons. Charles Knight. Sir George Burns. Sir Josiah Mason. The Wedgwoods. Thomas Brassey. The Fairbairns. Sir William Siemens. The Rennies.

610 MEDICINE

610.1-610.9 GENERAL WORKS

Shaw, Clara S., [*born*] Weeks-.**610.2 P200**

⁶¹⁵⁴ A text-book of nursing, for the use of training schools, families, and private students. Second edition, revised and enlarged. 391 p. il. 2 pl. 1 table. D. New York: D. Appleton & Co., 1896.

Polk, R. L., & Co., publishers.

610.3 I

¹²⁸²⁵ Medical and surgical register of the United States and Canada. Comprising list of physicians and surgeons, ... , the various medical societies, medical colleges, hospitals, ... and other medical institutions, boards of health, ... , a synopsis of the laws ... relating to the profession, medical journals, ... , official list of officers of the medical departments of the U. S. army, navy and marine hospital service, Fifth revised edition. 2502 p. O. Detroit 1898.

Foster, Frank Pierce, editor.

L610.3 O800

⁶⁴⁴⁹ An illustrated encyclopædic medical dictionary. Being a dictionary of the technical terms used by writers on medicine and the collateral sciences, in the Latin, English, French, and German languages. 4 vol. il. pl. Q. New York: D. Appleton & Co., 1890-1894.

Walters, Frederick Rufenacht.

610.3 P001

¹⁶⁸⁶⁷ A household dictionary of medicine, preventive and curative. Second edition. [4],379 p. 69 il. O. London: Swan Sonnenschein & Co., 1895.

Berdoo, Edward.

610.9 P300

³⁵³² The origin and growth of the healing art: a popular history of medicine in all ages and countries. xii,509 p. 5 pl. O. London: Swan Sonnenschein & Co., 1893.

612 PHYSIOLOGY

Martin, Henry Newell.

612.02 P600

⁵³⁶² The human body. An account of its structure and activities and the conditions of its healthy working. Seventh edition, revised. xvi,685 p. 192 il. O. (American science series, advanced course.) New York: H. Holt & Co., 1896.

Foster, Michael.

612.02 P601

⁵⁰⁷² A text book of physiology. Revised and abridged from the author's text book of physiology in five volumes. With an appendix on, The chemical basis of the animal body, by A. Sheridan Lea. xlix,1351 p. 234 il. O. New York: Macmillan Co., 1896.

Donaldson, Henry Herbert.

612.82 P500

¹⁰²³⁶ The growth of the brain: a study of the nervous system in relation to education. 374 p. 77 il. D. [Contemporary science series.] London: W. Scott, 1897.

613-614 HYGIENE AND PUBLIC HEALTH

- Handbuch.** L613.02 P300
¹¹¹³² Handbuch der Hygiene. Herausgegeben von Dr. med. Th. Weyl. . . . Vol. 1-. il. pl. maps, table. Q. Jena: G. Fischer, 1895-.
 Vol. 1 published in 1896.
 "Literatur," scattered through the work.
- Finkelnburg, Carl.** L613.02 P300
¹¹⁰⁹⁴ Geschichtliche Entwicklung und Organisation der öffentlichen Gesundheitspflege in den Kulturstaaen. 1893. (*In* Handbuch der Hygiene, vol. 1. p. [4], 1-30. Jena 1896.)
- Blyth, Alexander Wynter.** 613.03 N600
¹²⁷³⁰ A dictionary of hygiene and public health, comprising sanitary chemistry, engineering, and legislation, the dietetic value of foods, and the detection of adulterations, on the plan of the "Dictionnaire d'hygiène publique" of Professor Ambroise Tardieu. xi, [1], 672 p. 140 il. 2 maps. O. London: C. Griffin & Co., 1876.
- Stevenson, Thomas, M. D.,** L613.08 1
¹¹²⁷¹ & **Murphy, Shirley F., editors.**
 A treatise on hygiene and public health. 3 vol. il. pl. maps, tables. Q. London: J. & A. Churchill, 1893-1896.
 Vol. 1 is in second edition, published in 1896.
- Knight, James.** 613.2 P501
⁹²⁶⁹ Food and its functions. A text-book for students of cookery. 282 p. 35 il. 2 pl. D. London: Blackie & Son, 1895.
- Arlidge, John Thomas.** 613.6 P200
¹⁹¹²⁹ The hygiene, diseases and mortality of occupations. xx, 568 p. O. London: Percival & Co., 1892.
- Lagrange, Fernand.** 613.72 P001
⁶⁰⁹⁵ Physiology of bodily exercise. xvi, 395 p. D. (International scientific series, vol. 66.) New York: D. Appleton & Co., 1896.
- Manacein, Mariya.** 613.79 P700
¹¹¹⁶⁹ Sleep: its physiology, pathology, hygiene, and psychology. By Marie de Manacéine. vii, [1], 341 p. il. D. [Contemporary science series, vol. 34.] London: W. Scott, 1897.
 "Bibliography" at the end of each chapter.

Richardson, Sir Benjamin Ward. 613.81 O300
¹⁰⁹⁸⁵ Ten lectures on alcohol. [2], 374 p. D. New York: National Temperance Society & Publication House, [1883].

Sykes, John Frederick Joseph. 614.02 P200
¹⁷⁶⁶¹ Public health problems. xii, 370 p. il. 1 map. D. [Contemporary science series, vol. 20.] London: W. Scott, 1892.

Notter, James Lane, & Firth, R. H. 614.02 P600
⁶⁵⁵⁷ The theory and practice of hygiene. xv, [1], 1034 p. 135 il. 10 pl. O. London: J. & A. Churchill, 1896.
 Contains bibliographical references at the end of each chapter.

London. International Health Exhibition, 1884. 614.06 I
¹⁶⁹⁸⁷ [Handbooks. 6 vol.] il. pl. maps, tables. O. [London 1884.]
 Contents: [Vol. 1.] Accessories to food. [Vol. 2.] Education. [Vol. 3-4.] Healthy houses for the people. [Vol. 5.] Our food and drink supply. Its adulteration. [Vol. 6.] Sanitation and hygiene.

American Public Health Association. 614.48 O700
¹⁸⁵⁶⁵ *Committee on Disinfectants.*

Disinfection and disinfectants: their application and use in the prevention and treatment of disease, and in public and private sanitation. By the Committee on Disinfectants, appointed by the American Public Health Association. 266 p. il. O. Concord, N. H., 1888.

Rohé, G. H. Bibliography from 1880 to 1888, p. 242-255.

Hill, Charles Thaxter. 614.84 P700
¹³²²⁷ Fighting a fire. xiii, [2], 246 p. il. 1 pl. D. New York: Century Co., 1897.

Doty, Alvah Hunt. 614.88 P400
¹²⁴³⁷ A manual of instruction in the principles of prompt aid to the injured. Including a chapter on hygiene and the drill regulations for the hospital corps, U. S. A. Designed for military and civil use. Second edition, revised and enlarged. xvi, 304 p. 167 il. 2 pl. D. New York: D. Appleton & Co., 1898.

615 MATERIA MEDICA

National Convention for Revising the Pharmacopœia. 615.11 P300
¹¹⁷⁰⁸ The pharmacopœia of the United States of America. Seventh decennial revision (1890). By authority of the National Convention for Revising the Pharmacopœia held at Washington, A. D. 1890. Official from January 1st, 1894. Published by the Committee of Revision. lix, 602 p. O. Philadelphia: P. Blakiston, Son & Co., 1893.

Wood, George Bacon, & Bache, Franklin. L615.12 P400

¹¹⁶⁸³ The dispensatory of the United States of America. Seventeenth edition. Thoroughly revised and largely rewritten. By H. C. Wood, Joseph P. Remington, and Samuel P. Sadtler. xlv, 1930 p. il. Q. Philadelphia: J. B. Lippincott Co., 1898.

Era formulary. 615.13 P300

¹⁵¹⁴⁸ The Era formulary. 5000 formulas for druggists. A collection of original and prize formulas, to which has been added a selection of formulas from standard authorities in the English, French and German, for application in pharmacy, in the household and the industries; ... First edition. ... Compiled and edited by the Pharmaceutical era. viii, 462 p. O. New York: D. O. Haynes & Co., c. 1893.

Griffiths, T. M. 615.13 P700

¹⁵⁰⁹⁰ Non-secret formulas. A collection of ... formulas and ... prize prescriptions for the use of physicians and druggists, to which has been added a selection of ... original formulas for toilet articles, perfumery and articles of household use, ... First edition. v, 513 p. O. St. Louis 1897.

With supplementary sheets bound in.

Solly, Samuel Edwin. 615.834 P700

¹⁶⁹²⁰ A handbook of medical climatology. Embodying its principles and therapeutic application with scientific data of the chief health resorts of the world. 470 p. il. 11 maps. O. Philadelphia: Lea Brothers & Co., 1897.

617 DENTISTRY

Polk & Co., R. L., publishers. 617.6 1

¹⁴¹²⁷ R. L. Polk & Co.'s dental register of the United States and Canada. Comprising list of dentists arranged by states and provinces, giving postoffice address with population and location, date and college of graduation. The various dental societies, dental colleges, a synopsis of the laws of registration, and other laws relating to the profession ... Dental journals with names of editors, frequency of publication and subscription rates, and an index ... arranged alphabetically. ... 1898-99. Third edition. 976 p. O. Detroit, c. 1898.

620 ENGINEERING

620.1-620.9 GENERAL WORKS

Lanza, Gaetano.

620.1 P001

²⁰⁴⁰⁴ Applied mechanics. Seventh edition, revised. . . . viii,929 p.
310 il. O. New York: J. Wiley & Sons, 1899, c. 1885.

Handbuch.

L620.2 O300

¹¹⁸⁰⁴ Handbuch der Ingenieurwissenschaften. . . . Zweite vermehrte
Auflage. Vol. 1-. il. pl. maps, tables. Q. Leipzig: W. Engel-
mann, 1885-.

Vol. 1 published in 1887.

Various editions.

Sonne, Eduard, *editor*.

L620.2 O300

⁷⁹⁹⁷ Vorarbeiten, Erd-, Strassen-, Grund- und Tunnelbau, sowie Kon-
struktion der Stütz- und Futtermauern. Dritte Abteilung: Erd-
rutschungen. Tunnelbau. Bearbeitet von E. Mackensen, Gustav
Meyer und R. Richard. Zweite vermehrte Auflage. xvi,428,vi p.
129 il. 23 pl. Q. (Handbuch der Ingenieurwissenschaften, vol.
1.) Leipzig: W. Engelmann, 1887.

"Litteratur", scattered through the book.

Rankine, William John Macquorn.

620.2 P700

¹⁴⁵⁸¹ A manual of civil engineering. Twentieth edition, thoroughly
revised. By W. J. Millar. xvi,818 p. il. O. London: C. Griffin
& Co., 1898.

Byrne, Oliver, & Spon, Ernest, *editors*.

L620.3 N400

¹³¹⁵ Spons' dictionary of engineering, civil, mechanical, military, and
naval: with technical terms in French, German, Italian, and Span-
ish. 3 vol. il. tables. Q. New York: E. & F. N. Spon, 1874.

Harcourt, Leveson Francis Vernon-.

620.9 P100

³⁰⁵ Achievements in engineering during the last half century. Sec-
ond edition. vi,[2],311 p. 10 il. 12 pl. 1 por. O. New York:
C. Scribner's Sons, 1892.

621 MECHANICAL ENGINEERING

Barber, Thomas Walter.

621.004 P700

⁹²⁶⁹ The engineer's sketch-book of mechanical movements, devices, appliances, contrivances, and details employed in the design and construction of machinery for every purpose, classified & arranged for reference for the use of ... all engaged in the mechanical arts. Third edition, considerably enlarged. 335 p. 2603 il. O. London: E. & F. N. Spon, 1897.

Peabody, Cecil Hobart.

621.01 P800

¹⁵⁰⁷¹ Thermodynamics of the steam-engine and other heat engines. Fourth edition, rewritten ... v.522 p. 97 il. O. New York: J. Wiley & Sons, 1898.

Weisbach, Julius.

621.02 N500

¹³⁵⁷⁶ Lehrbuch der Ingenieur- und Maschinen-Mechanik. Mit den nöthigen Hülfslehren aus der Analysis für den Unterricht an technischen Lehranstalten sowie zum Gebrauche für Techniker bearbeitet. Fünfte verbesserte und vervollständigte Auflage bearbeitet von Gustav Hermann. ... Vol. 1-. il. pl. O. Braunschweig: F. Vieweg & Sohn, 1876-.

Vol. 1 published in 1896 as a reprint of the edition of 1875. Vol. 3 is in second edition, revised and enlarged.

Unwin, William Cawthorne.

621.02 P001

¹⁵⁹³³ The elements of machine design. ... Sixteenth impression, (revised and enlarged in 1890). 2 vol. il. D. [Text-books of science.] London: Longmans, Green, & Co., 1897-1898.

Contents: Vol. 1. General principles, fastenings, and transmissive machinery. Vol. 2. Chiefly on engine details.

Vol. 2, published in 1897, is in fourteenth edition, revised and enlarged, 1891.

Carpenter, Rolla Clinton.

621.02 P200

¹²⁵⁸³ A text-book of experimental engineering. For engineers and for students in engineering laboratories. xx,709 p. 250 il. 2 pl. O. New York: J. Wiley & Sons, 1892.

The present work is a third edition of "Notes to mechanical laboratory practice," published in 1890.

Rankine, William John Macquorn.

621.02 P300

¹¹¹³⁴ A manual of machinery and millwork. Seventh edition, thoroughly revised, by W. J. Millar. xvi,601 p. il. O. London: C. Griffin & Co., 1893.

Horner, Joseph G.

621.02 P301

¹¹²⁶⁸ The principles of fitting. For apprentices, and students in technical schools. By a foreman pattern maker. And including a number of useful shop notes and memoranda. x,313 p. il. 5 pl. D. [Whittaker's library of arts, sciences & industries.] London: Whittaker & Co., [1893].

Barber, Thomas Walter.

621.02 P400

¹²⁶⁹⁹ The repair and maintenance of machinery. A handbook of practical notes and memoranda for engineers and machinery users. x,466 p. 417 il. O. London: E. & F. N. Spon, 1895.

Jamieson, Andrew.

621.02 P602

¹⁴²⁷³ A text-book of applied mechanics. Specially arranged for the use of Science and Art, City and Guilds of London Institute, and other engineering students. Second edition. 2 vol. il. pl. table. O. [Griffin's scientific text-books.] London: C. Griffin & Co., 1896-1897.

Rankine, William John Macquorn.

621.02 P702

¹¹²⁴⁵ A manual of the steam engine and other prime movers. Fourteenth edition, revised. By W. J. Millar. xxxii,638 p. il. 2 pl. 1 table. D. London: C. Griffin & Co., 1897.

Hiscox, Gardner Dexter.

621.02 P901

¹⁴⁵²³ Mechanical movements. Powers, devices and appliances used in constructive and operative machinery and the mechanical arts. For the use of inventors, ... and all others interested in any way in mechanics. [4],402 p. 1649 il. O. New York: Munn & Co., 1899.

Clark, Daniel Kinnear.

L621.1 P001

⁴³⁵¹ The steam engine: a treatise on steam engines and boilers. 2 vol. in 4. il. pl. tables. Q. London: Blackie & Son, 1890.

Rose, Joshua.

L621.1 P303

¹⁵¹³⁶ Modern steam engines: an elementary treatise upon the steam engine, written in plain language, for use in the workshop as well as in the drawing office. Giving full explanations of the construction of modern steam engines; including diagrams showing their actual operation; together with complete but simple explanations of the operations of various kinds of valves, valve motions, and link motions, etc. New edition, revised and improved. 357 p. il. 1 pl. sq. F. Philadelphia: H. C. Baird & Co., 1897.

Jamieson, Andrew.

621.1 P703

¹¹²⁶⁴ A text-book on steam and steam engines. Specially arranged for the Science and Art, City and Guilds of London Institute, and other engineering students. Twelfth edition. xiv,468 p. il. 7 pl. D. [Griffin's scientific text-books.] London: C. Griffin & Co., 1897.

Stretton, Clement E.

621.13 P604

¹⁷⁶⁸³ The locomotive engine and its development. A popular treatise on the gradual improvements made in railway engines between 1803 and 1896. Fifth edition, revised and enlarged. xii,252 p. il. 9 pl. 1 por. 2 tables. D. [Weale's scientific & technical series.] London: C. Lockwood & Son, 1896.

Thurston, Robert Henry.

621.18 0701

⁴⁸⁶⁷ Steam boiler explosions, in theory and in practice. Second edition. viii,174 p. 63 il. D. New York: J. Wiley & Sons, 1888.

Peabody, Cecil Hobart, & Miller, Edward F.

621.18 P700

⁷⁸¹² Steam boilers. First edition. . . . vi,380 p. 140 il. 5 pl. O. New York: J. Wiley & Sons, 1897.

Bodmer, G. R.

621.2 P500

⁹⁰⁶⁵ Hydraulic motors: turbines and pressure engines. . . . Second edition, revised and enlarged. xii,[2],551 p. il. 11 pl. 9 tables. O. (Specialists' series.) New York: D. Van Nostrand Co., 1895.

Blaine, Robert Gordon.

621.2 P700

⁸¹³⁷ Hydraulic machinery. With an introduction to hydraulics. vii, 383 p. il. 7 pl. 1 por. O. [Finsbury technical manuals.] London: E. & F. N. Spon, 1897.

Wood, De Volson.

621.24 P600

¹¹⁵⁹⁸ Turbines, theoretical and practical, with numerical examples and experimental results. Second edition, revised and enlarged. [4],152 p. il. 45 pl. O. New York: J. Wiley & Sons, 1896.

Donkin, Bryan.

621.4 P600

⁵¹³⁴ A text-book on gas, oil, and air engines; or, Internal combustion motors without boiler. Second edition, revised and largely rewritten. xxiv,500 p. 154 il. O. London: C. Griffin & Co., 1896.

Hiscox, Gardner Dexter.**621.4 P700**

⁸³⁸⁸ Gas, gasoline, and oil vapor engines. . . . Illustrating their design, construction, and operation for stationary, marine, and vehicle motive power. . . . vi,279 p. 206 il. O. New York: N. W. Henley & Co., 1897.

Richards, Frank.**621.5 P500**

¹⁰⁷²⁶ Compressed air. Practical information upon air-compression and the transmission and application of compressed air. First edition. . . . v,203 p. 25 il. 1 table. D. New York: J. Wiley & Sons, 1897.

Tayler, A. J. Wallis.**621.5 P701**

¹⁹⁵⁶⁰ Refrigerating and ice-making machinery. A descriptive treatise for the use of persons employing refrigerating and ice-making installations, and others. Second edition, with additions. xviii, 280 p. il. 4 pl. D. London: C. Lockwood & Son, 1897.

Barr, William Miller.**621.64 P300**

¹²¹³⁴ Pumping machinery. A practical hand-book relating to the construction and management of steam and power pumping machines. 447 p. il. 2 pl. O. Philadelphia: J. B. Lippincott Co., 1893.

Robinson, Stillman Williams.**621.81 P600**

⁵⁹²¹ Principles of mechanism. A treatise on the modification of motion by means of the elementary combinations of mechanism, or of the parts of machines. . . . First edition. . . . xv,309 p. 353 il. O. New York: J. Wiley & Sons, 1896.

Rose, Joshua.**L621.9 P100**

¹³⁹⁵ Modern machine-shop practice. Second edition, fully revised and with important additions. 2 vol. il. pl. sq.F. New York: C. Scribner's Sons, 1892.

Wilson, Herbert S.**621.9 P803**

¹⁹³³⁵ The practical tool-maker and designer: a treatise upon the designing of tools and fixtures for machine tools and metal working machinery, comprising modern examples of machines with fundamental designs for tools for the actual production of the work; together with special reference to a set of tools for machining the various parts of a bicycle. xv,209 p. 72 pl. O. Philadelphia: H. C. Baird & Co., 1898.

622 MINING ENGINEERING

Copp, Henry N., *editor*.

622.007 P600

⁶⁶¹¹ American mining code: embracing the United States, state, and territorial mining laws, the Land Office regulations, and a digest of federal and state court and land department decisions. iv, 214 p. O. Washington, D. C.: published by the editor, 1896.

Barringer, Daniel Moreau, & Adams, John Stokes. 622.007 P701

¹²⁰⁷⁴ The law of mines and mining in the United States. cxxv, 878 p. il. O. Boston: Little, Brown, & Co., 1897.

Foster, Clement Le Neve.

622.02 P400

⁷³⁰⁶ A text-book of ore and stone mining. Second edition. xxviii, [2], 744 p. 711 il. 1 pl. O. London: C. Griffin & Co., 1897.

Gresley, William Stukeley.

622.33 0300

¹⁴⁰⁹⁰ A glossary of terms used in coal mining. x, [2], 296 p. 138 il. D. London: E. & F. N. Spon, 1883.

624-625 BRIDGE AND ROAD ENGINEERING

Merriman, Mansfield, & Jacoby, Henry S.

624.02 P400

¹³⁸⁶¹ A text-book on roofs and bridges. . . . 4 vol. il. pl. O. New York: J. Wiley & Sons, 1897-1898.

Vol. 1 is in fourth edition, published in 1898; vol. 2-3 are in third; vol. 4 is in first.

Crosby, Oscar Terry, & Bell, Louis.

625.5 P200

⁴⁵³² The electric railway in theory and practice. 400 p. 179 il. O. New York: W. J. Johnston Co., 1892.

Clark, Daniel Kinnear.

625.5 P401

¹³¹⁵⁷ Tramways, their construction and working. Embracing a comprehensive history of the system, with accounts of the various modes of traction . . . , a description of the varieties of rolling stock and ample details of cost and working expenses, with special reference to the tramways of the United Kingdom. Second edition, re-written and greatly enlarged. xxxv, [1], 758 p. il. 11 pl. 1 map. O. London: C. Lockwood & Son, 1894.

Houston, Edwin James, & Kennelly, A. E.

625.5 P601

⁷²⁹³ Electric street railways. vi, 367 p. 158 il. sq. S. (Elementary electro-technical series.) New York: W. J. Johnston Co., 1896.

Farman, D. 625.6 P600
⁵⁷¹³ Auto-cars. Cars, tramcars, and small cars. Translated from the French by Lucien Serrailier. With preface by Baron de Zuylen de Nyevelt. ix,249 p. 112 il. D. London: Whittaker & Co., 1896.

Tayler, A. J. Wallis-. 625.6 P700
⁹³⁷⁴ Motor cars; or, Power-carriages for common roads. xii,200 p. 76 il. D. London: C. Lockwood & Son, 1897.

Love, Edward Gurley, *editor*. 625.7 P001
⁴⁹⁰³ Pavements and roads: their construction and maintenance. . . . [4],410 p. il. O. New York: Engineering and Building Record, 1890.
 Consists of papers reprinted from the *Engineering and building record*.

Spalding, Frederick Putnam. 625.7 P500
¹⁰⁸⁰⁶ A text-book on roads and pavements. By Fred P. Spalding. First edition. . . . viii,213 p. 44 il. D. New York: J. Wiley & Sons, 1895.

Shaler, Nathaniel Southgate. 625.7 P600
⁵⁵⁶⁸ American highways. A popular account of their conditions and of the means by which they may be bettered. xv,293 p. il. 1 pl. D. New York: Century Co., 1896.

Jeans, J. Stephen. 626 P001
¹¹⁴¹² Waterways and water transport in different countries: with a description of the Panama, Suez, Manchester, Nicaraguan, and other canals. xx,507 p. il. 4 pl. O. London: E. & F. N. Spon, 1890.

628 SANITARY ENGINEERING

Galton, Sir Douglas. 628.02 P600
⁶⁴⁶⁸ Observations on the construction of healthy dwellings, namely: houses, hospitals, barracks, asylums, etc. Second edition, revised. xvi,306 p. 65 il. O. Oxford: Clarendon Press, 1896.

Chicago. Board of Trustees of the 628.09773 P400
⁴⁸⁸⁹ *Sanitary District.*

Drainage channel and waterway: a history of the effort to secure an effective and harmless method for the disposal of the sewage of the city of Chicago, and to create a navigable channel between Lake Michigan and the Mississippi River. By G. P. Brown. ix, 480 p. il. 12 pl. 4 maps, 2 tables. O. Chicago: R. R. Donnelley & Sons' Co., 1894.

Mason, William Pitt.

628.1 P700

⁶⁰²⁰ Water-supply. (Considered practically from a sanitary standpoint.) Second edition, revised . . . vii,504 p. il. 9 pl. 2 maps. O. New York: J. Wiley & Sons, 1897.

Burton, William Kinninmond.

L628.1 P800

¹⁸⁵⁴⁵ The water supply of towns and the construction of waterworks. A practical treatise for the use of engineers and students of engineering. Second edition, revised and extended. xvi,318 p. il. 39 pl. 2 maps, 5 tables. Q. London: C. Lockwood & Son, 1898.

Milne, J. Considerations concerning the probable effects of earthquakes on waterworks, and the special precautions to be taken in earthquake countries, p. 283-288.

Rijke, J. de. On sand dunes and dune sand as a source of water supply, p. 289-294.

Rideal, Samuel.

628.16 P700

⁵⁹²⁵ Water and its purification. A handbook for the use of local authorities, sanitary officers, and others interested in water supply. xii,292 p. 66 il. 2 tables. D. London: C. Lockwood & Son, 1897.

Hill, John Willmuth.

628.16 P801

¹⁷⁹⁷⁷ The purification of public water supplies. xi,304 p. 32 il. O. New York: D. Van Nostrand Co., 1898.

Contents: 1. Introduction. 2. Sources of public water supply. 3. Bacterial contents of various waters. 4. The typhoid bacillus and typhoid fever. 5. Classification of cities by typhoid fever statistics. 6. Pure and purified waters. 7. Citations on typhoid fever epidemics. 8. Sedimentation of polluted waters. 9. Sterilization of drinking-water. 10. Filtration of water supplies. 11. Types of sand filters. 12. Mechanical filters. 13. Hamburg settling-basins and filters. 14. The filters of the Berlin water-works. 15. The Fischer filter and Anderson purifier. 16. Filters proposed for Cincinnati. 17. Cost of filters and filtration. Appendix A. Typhoid fever statistics from large cities of the world. Appendix B. The bacteria. Appendix C. The legal liability of cities and water companies for damages by sewage polluted water.

"Authorities quoted or referred to," p. 290-293.

Rafter, George W., & Baker, M. N.

L628.3 P300

⁵⁶¹⁵ Sewage disposal in the United States. Second edition. xxvii, 598 p. 116 il. 4 pl. 1 map, 2 tables. Q. New York: D. Van Nostrand Co., 1894.

Waring, George Edwin, Jr.

628.4 P800

¹⁰⁶⁵⁵ Street-cleaning and the disposal of a city's wastes: methods and results and the effect upon public health, public morals, and municipal prosperity. ix,230 p. il. 4 pl. 1 por. D. New York: Doubleday & McClure Co., 1898.

Teale, Thomas Pridgin.

628.6 N800

³³⁰³ Dangers to health: a pictorial guide to domestic sanitary defects. Second edition. [2],10,vi p. 55 pl. O. London: J. & A. Churchill, 1879.

Billings, John Shaw.

628.8 P200

¹⁸⁰² Ventilation and heating. 500 p. 210 il. O. New York: Engineering Record, 1893.

630 AGRICULTURE

Webb, Henry J.

630.2 P400

¹²¹³⁸ Advanced agriculture. viii,672 p. 100 il. D. [Advanced science manuals.] London: Longmans, Green, & Co., 1894.

Storer, Francis Humphreys.

630.2 P700

⁵⁹⁰⁶ Agriculture in some of its relations with chemistry. Seventh edition, revised and enlarged. 3 vol. O. New York: C. Scribner's Sons, 1897.

Bailey, Liberty Hyde, *editor*.

630.2 P801

²⁰⁰¹² The principles of agriculture. A text-book for schools and rural societies. xv,300 p. 92 il. D. [Rural science series.] New York: Macmillan Co., 1898.

King, Franklin Hiram.

631 P500

¹¹¹³⁷ The soil: its nature, relations, and fundamental principles of management. xv,303 p. 45 il. D. [Rural science series.] New York: Macmillan Co., 1897.

Roberts, Isaac Phillips.

631 P700

⁸⁰¹⁶ The fertility of the land. A summary sketch of the relationship of farm-practice to the maintaining and increasing of the productivity of the soil. xvii,415 p. 45 il. D. [Rural science series.] New York: Macmillan Co., 1897.

Crole, David.

633.286 P700

⁹²⁹⁸ Tea. A text book of tea planting and manufacture. Comprising chapters on the history and development of the industry, the cultivation of the plant, the preparation of the leaf for the market, the botany and chemistry of tea, etc., etc. With some account of the laws affecting labour in tea gardens in Assam and elsewhere. xii,242 p. il. 4 pl. O. London: C. Lockwood & Son, 1897.

Nicholson, George, *editor*.

L634 O400

- ¹⁵⁹⁷⁵ The illustrated dictionary of gardening, a practical and scientific encyclopædia of horticulture for gardeners and botanists. Edited by George Nicholson, assisted by professor J. W. H. Trail, in the parts relating to insects, fungi, plant structure, horticultural chemistry, &c.; and J. Garrett in the fruit, vegetable, and general garden work portions. 4 vol. il. pl. sq.Q. London: L. U. Gill, [1884-1888].

Bailey, Liberty Hyde.

634 P702

- ¹⁷⁷⁰³ The principles of fruit-growing. Second edition. xvii, 514 p. 120 il. D. [Rural science series.] New York: Macmillan Co., 1898.

"American books on fruit-growing", p. 488-500.

Bailey, Liberty Hyde.

634 P800

- ¹⁶⁷⁶⁶ The pruning-book. A monograph of the pruning and training of plants as applied to American conditions. ix, [2], 537 p. 331 il. S. [Garden-craft series.] New York: Macmillan Co., 1898.

Bailey, Liberty Hyde.

634 P801

- ¹⁷¹⁶⁹ Sketch of the evolution of our native fruits. xiii, 472 p. 125 il. 1 por. D. New York: Macmillan Co., 1898.

"American grape literature", p. 117-126.

Card, Fred Wallace.

634.3 P800

- ¹⁸⁰⁵⁰ Bush-fruits. A horticultural monograph of raspberries, blackberries, dewberries, currants, gooseberries, and other shrub-like fruits. xii, 537 p. 113 il. D. [Rural science series.] New York: Macmillan Co., 1898.

Hough, Franklin Benjamin.

634.9 O200

- ¹³⁵¹⁷ The elements of forestry. Designed to afford information concerning the planting and care of forest trees for ornament or profit and giving suggestions upon the creation and care of woodlands, . . . , particularly adapted to the wants and conditions of the United States. ix, 381 p. 169 il. O. Cincinnati: R. Clarke & Co., 1882.

Ward, Harry Marshall.

634.9 O900

- ⁴⁸⁴¹ Timber and some of its diseases. viii, 295 p. 45 il. D. (Nature series.) London: Macmillan & Co., 1889.

Schlich, William.

634.9 P500

¹¹¹⁸⁰ A manual of forestry. . . . 5 vol. il. pl. O. London: Bradbury, Agnew, & Co., 1895-1897.

Vol. 1 and 2 are in second edition, revised, published in 1896 and 1897.

Vol. 4-5 published under the title: Schlich's manual of forestry.

Vol. 4 is an English adaptation, by W. R. Fisher, of Hess, Richard. *Der Forstschutz*; vol. 5 is a translation, by W. R. Fisher, of Gayer, Karl. *Die Forstbenutzung*.

Vol. 1 contains a new part on The state in relation to forestry, and a general review of the timber requirements of the British Empire.

Bailey, Liberty Hyde.

635 P600

⁵¹²⁵ The nursery-book: a complete guide to the multiplication of plants. Third edition. xi,365 p. 152 il. D. [Garden-craft series.] New York: Macmillan Co., 1896, pref. 1891.

Bailey, Liberty Hyde.

635 P800

¹⁶⁷⁹⁸ Garden-making. Suggestions for the utilizing of home grounds. Third edition, revised. vii,417 p. 256 il. S. [Garden-craft series.] New York: Macmillan Co., 1899.

Henry, William Arnon.

636 P800

¹⁵⁰⁹⁴ Feeds and feeding. A hand-book for the student and stockman. vi,657 p. O. Madison, Wis.: published by the author, 1898.

Fleming, George.

636.1 P001

¹⁰¹⁰⁴ The practical horse keeper. viii,264 p. il. D. London: L. U. Gill, [1890].

Fleischmann, Wilhelm.

637 P300

¹²⁶⁰³ The book of the dairy. A manual of the science and practice of dairy work. Translated from the German by C. M. Aikman and R. Patrick Wright. xxiv,344 p. 83 il. 6 pl. O. London: Blackie & Son, 1896.

Wing, Henry Hiram.

637 P701

⁹⁶⁸⁸ Milk and its products. A treatise upon the nature and qualities of dairy milk and the manufacture of butter and cheese. xiii,280 p. 33 il. D. [Rural science series.] New York: Macmillan Co., 1897.

Cheshire, Frank R.

638 O600

¹²⁷²⁰ Bees & bee-keeping; scientific and practical. A complete treatise on the anatomy, physiology, floral relations, and profitable management of the hive bee. . . . 2 vol. il. pl. D. London: L. U. Gill, 1886-1888.

Contents: Vol. 1. Scientific. Vol. 2. Practical.

640 DOMESTIC ECONOMY

- Campbell, Helen**, [*born Stuart*]. 640.2 P600
⁴⁹⁹⁶ Household economics. A course of lectures in the School of Economics of the University of Wisconsin. xxi,286 p. O. New York: G. P. Putnam's Sons, 1897.
- Richards, Ellen Henrietta**, [*born Swallow*], 640.2 P700
¹⁰¹⁴⁹ & Elliott, S. Maria.
 The chemistry of cooking and cleaning. A manual for house-keepers. Second edition, revised and rewritten. vi,[2],158 p. D. Boston: Home Science Publishing Co., 1897.
- Parloa, Maria**. 640.2 P801
¹⁶³¹¹ Home economics. A guide to household management including the proper treatment of the materials entering into the construction and the furnishing of the house. xii,378 p. 52 il. D. New York: Century Co., 1898.
- Abel, Mrs. Mary Hinman**. 641 P004
⁹⁹⁷⁷ Practical, sanitary and economic cooking adapted to persons of moderate and small means. The Lomb prize essay. Inscription: "The five food principles, illustrated by practical recipes." x, [2],186 p. D. Rochester: American Public Health Association, 1890.
- Ronald, Mary**. 641 P500
³⁶⁰⁰ The Century cook book. . . . xiv,[2],588 p. 60 pl. O. New York: Century Co., 1896.
- Atkinson, Edward**. 641 P501
⁵¹⁵⁶ The science of nutrition. Treatise upon the science of nutrition. The Aladdin oven, invented by Edward Atkinson. . . . Dietaries carefully computed under the direction of Mrs. Ellen H. Richards. . . . Nutritive values of food materials, collated from the writings of Prof. W. O. Atwater. . . . [Fourth edition.] . . . 246 p. il. 1 pl. sq.O. Boston: Damrell & Upham, 1896.
- Jago, William**. 641 P502
⁵²⁹¹ A text-book of the science and art of bread-making; including the chemistry and analytic and practical testing of wheat, flour, and other materials employed in baking. 11,648 p. 81 il. 14 pl. O. London: Simpkin, . . . , Kent & Co., 1895.

Pennell, Elizabeth, [*born*] Robins.

641 P601

⁴¹²⁹ The feasts of Autolycus: the diary of a greedy woman. 264 p. D. [Mayfair set, no. 5.] London: J. Lane, 1896.

Farmer, Fannie Merritt.

641 P603

⁵⁵⁵⁰ The Boston Cooking-School cook book. xxx,567 p. il. D. Boston: Little, Brown, & Co., 1896.

König, Joseph.

643 O900

⁸⁹⁴⁷ Chemie der menschlichen Nahrungs- und Genussmittel. . . . Dritte sehr vermehrte und verbesserte Auflage. 2 vol. il. O. Berlin: J. Springer, 1889-1893.

Contents: Vol. 1. Chemische Zusammensetzung der menschlichen Nahrungs- und Genussmittel. Nach vorhandenen Analysen, mit Angabe der Quellen zusammengestellt. Mit einer Einleitung über die Ernährungslehre. Vol. 2. Die menschlichen Nahrungs- und Genussmittel, ihre Herstellung, Zusammensetzung und Beschaffenheit, ihre Verfälschungen und deren Nachweis.

Springstead, Anne Frances.

643 P400

³⁵⁶⁰ The expert waitress: a manual for the pantry, kitchen, and dining-room. [8],131 p. S. New York: Harper & Brothers, c. 1894.

Cook, Clarence [*Chatham*].

645 N700

¹³⁹⁶² The house beautiful. Essays on beds and tables, stools and candlesticks. 336 p. 99 il. O. [New York]: C. Scribner's Sons, 1895, c. 1877.

Steele, Frances Mary, &

646 P200

¹⁷⁶⁸⁴ **Adams, Elizabeth Livingston Steele.**

Beauty of form and grace of vesture. [2],vii,231 p. il. 16 pl. paged in. D. New York: Dodd, Mead & Co., 1894.

Davis, Jeanette E., & Holahan, Cora M.

646 P400

³⁶²⁰ The elements of modern dressmaking: for the amateur and professional dressmaker. xii,193 p. 46 il. 1 pl. D. New York: Cassell Publishing Co., c. 1894.

Ortner, Jessica.

646 P702

⁸⁵¹⁷ Practical millinery. xii,170 p. 46 il. D. London: Whittaker & Co., 1897.

650 COMMERCE

Bryant, John Collins.

650.2 P100

- ⁹⁷⁶³ The business man's commercial law and business forms combined. A vade-mecum for the counting-house. Edited by the Hon. Geo. W. Clinton. Fourteenth edition.—Revised. 240,[2],57 p. 1 por. O. Buffalo, N. Y.: J. C. Bryant, 1897, c. 1891.

655 PRINTING AND PUBLISHING

MacKellar, Thomas.

655.02 N800

- ⁹⁷⁶ The American printer: a manual of typography, [Eighteenth edition, . . . enlarged.] xiv,384 p. il. 1 por. O. Philadelphia: MacKellar, Smiths & Jordan, 1893.

Putnam, George Haven & Putnam, J. B.

655.02 P700

- ¹⁸⁷⁵² Authors and publishers. A manual of suggestions for beginners in literature. Comprising a description of publishing methods and arrangements, directions for the preparation of mss. for the press, explanations of the details of book-manufacturing, instructions for proof-reading, specimens of typography, the text of the United States copyright law and information concerning copyrights, together with general hints for authors. By G. H. P. and J. B. P. Seventh edition, rewritten with additional material. ix, [2],292 p. 1 facsim. O. New York: G. P. Putnam's Sons, 1897.

Southward, John.

655.02 P800

- ¹⁸⁰⁷⁵ Modern printing. A handbook of the principles and practice of typography and the auxiliary arts. By John Southward, assisted by well-known experts. Vol. 1—. il. pl. por. table. O. London: Raithby, Lawrence & Co., 1898—.

[Pasko, Wesley Washington, *editor*.]

L655.03 P400

- ⁵² American dictionary of printing and book-making, containing a history of these arts in Europe and America, with definitions of technical terms and biographical sketches. [2],iv,592 p. il. 1 por. sq. Q. New York: H. Lockwood & Co., 1894.

Bouchot, Henri.

L655.09 O600

- ²⁰⁸ The printed book, its history, illustration, and adornment, from the days of Gutenberg to the present time. Translated and enlarged by Edward C. Bigmore. viii,312 p. 118 il. Q. London: H. Grevel & Co., 1887.

Duff, Edward Gordon.

655.1 P300

³¹⁰ Early printed books. xii,219 p. 11 pl. O. [Books about books.] London: Kegan Paul, ... & Co., 1893.

De Vinne, Theodore Low.

655.11 N600

²¹⁰⁸ The invention of printing. A collection of facts and opinions descriptive of early prints and playing cards, the block-books of the fifteenth century, the legend of Lourens Janszoon Coster, of Haarlem, and the work of John Gutenberg and his associates. Second edition. 557 p. il. 1 pl. O. New-York: F. Hart & Co., 1878.

Putnam, George Haven.

655.44 P600

³⁶²⁴ Books and their makers during the Middle Ages. A study of the conditions of the production and distribution of literature from the fall of the Roman Empire to the close of the seventeenth century. 2 vol. O. New York: G. P. Putnam's Sons, 1896-1897.

Blackburn, Henry.

L655.53 P400

¹⁷¹⁸⁶ The art of illustration. Second edition. xvi,240 p. il. 13 pl. paged in, 1 pl. 2 por. paged in. Q. London: W. H. Allen & Co., 1896.

Pennell, Joseph.

655.53 P500

²⁵⁵ Modern illustration. xxv,134 p. il. 95 pl. D. [Ex-libris series.] London: G. Bell & Sons, 1895.

Pennell, Joseph.

655.53 P501

⁴¹²⁴ The illustration of books. A manual for the use of students, notes for a course of lectures at the Slade School, University College. xii,168 p. D. New York: Century Co., pref. 1895.

Crane, Walter.

655.53 P600

⁶⁵⁰² Of the decorative illustration of books, old and new. xii,355 p. il. sq.D. [Ex-libris series.] London: G. Bell & Sons, 1896.

Putnam, George Haven.

655.6 P600

¹³⁷⁴ The question of copyright. Comprising the text of the copyright law of the United States, a summary of the copyright laws at present in force in the chief countries of the world, Second edition, revised, and with additional material. xxiv,[2],486 p. O. New York: G. P. Putnam's Sons, 1896.

656 TRANSPORTATION

Clarke, Thomas Curtis, & others.

656.02 0900

- ¹⁷¹³ The American railway, its construction, development, management, and appliances. With an introduction by Thomas M. Cooley. xxviii,456 p. 264 il. Q. New York: C. Scribner's Sons, 1892.

Contents: Cooley, T. M. Introduction. Clarke, T. C. The building of a railway. Bogart, J. Feats of railway engineering. Forney, M. N. American locomotives and cars. Alexander, E. P. Railway management. Prout, H. G. Safety in railroad travel. Porter, H. Railway passenger travel. Voorhees, T. The freight-car service. Norton, B. How to feed a railway. James, T. L. The railway mail service. Hadley, A. T. The railway in its business relations. Adams, C. F. The prevention of railway strikes. Adams, B. B., Jr. The every-day life of railroad men. Hewes, F. W. Statistical railway studies.

McCain, Charles Curtice, *editor*.

656.04 M13

- ³⁴⁸⁹ Compendium of transportation theories. A compilation of essays upon transportation subjects by eminent experts. 295 p. O. (Kensington series, no. 1.) Washington, D. C.: Kensington Publishing Co., 1893.

Hadley, Arthur Twining.

656.09 0500

- ³⁰⁹⁰ Railroad transportation: its history and its laws. iv,[2],269 p. il. D. New York: G. P. Putnam's Sons, 1890, c. 1885.

Adams, Charles Francis, Jr.

656.0973 N800

- ³¹³⁹ Railroads: their origin and problems. [4],216 p. D. New York: G. P. Putnam's Sons, 1878.

Van Oss, S. F.

656.0973 P200

- ¹²⁶⁵ American railroads as investments. A handbook for investors in American railroad securities. xv,815,[2],vii p. 5 maps. O. New York: G. P. Putnam's Sons, 1893.

Nares, Sir George Strong.

656.9 0200

- ¹⁰⁵² Seamanship: Sixth edition, enlarged and revised by Lieut. Arthur C. B. Bromley. xi,[1],291 p. il. 140 pl. O. New York: E. & F. N. Spon, 1882.

660 CHEMICAL TECHNOLOGY

660.1-660.9 GENERAL WORKS

Johnston, James Finlay Weir.

660.2 N900

- ¹³⁰⁸⁷ The chemistry of common life. A new edition revised, and brought down to the present time by Arthur Herbert Church. xxvi,592 p. 102 il. O. New York: D. Appleton & Co., 1898, pref. 1879.

Wagner, Rudolph von.

L660.2 0800

⁴³³⁶ Manual of chemical technology, translated and edited by William Crookes, from the thirteenth enlarged German edition as remodelled by Dr. Ferdinand Fischer. xxiii,968 p. 596 il. Q. New York: D. Appleton & Co., 1895.

Groves, Charles Edward, & Thorp, William, editors. **L660.2 0900**

⁵⁰⁰³ Chemical technology; or, Chemistry in its applications to arts and manufactures. With which is incorporated Richardson and Watts' Chemical technology. Vol. 1-2. il. pl. map. Q. London: J. & A. Churchill, 1889-1895.

Each volume is written by various contributors.

Fischer, Ferdinand.

660.2 P300

⁵⁵⁸⁰ Handbuch der chemischen Technologie. (Zugleich 14. völlig umgearbeitete Auflage von R. von Wagner's Handbuch der chemischen Technologie.) xii,1164 p. 716 il. O. Leipzig: Otto Wigand, 1893.

Sadtler, Samuel Philip.

660.2 P500

⁴³⁰⁷ A hand-book of industrial organic chemistry adapted for the use of manufacturers, chemists, and all interested in the utilization of organic materials in the industrial arts. Second revised and enlarged edition. 537 p. 127 il. 1 table. O. Philadelphia: J. B. Lippincott Co., 1895.

With bibliographical notes at the end of each chapter.

Dammer, Otto.

660.2 P501

⁷¹²⁴ Handbuch der chemischen Technologie. . . . Vol. 1-. il. O. Stuttgart: F. Enke, 1895-.

Lassar-Cohn, Dr.

660.2 P601

⁶¹⁹⁸ Chemistry in daily life. Popular lectures. Translated by M. M. Pattison Muir. x,324 p. 21 il. D. London: H. Grevel & Co., 1896.

Stohmann, Friedrich, & Kerl, Bruno, editors.

L660.3 0800

⁵⁶⁰⁶ Encyklopädisches Handbuch der technischen Chemie. Vierte Auflage. . . . Continued from vol. 1. [1888.] il. Q. Braunschweig: F. Vieweg & Sohn, 1888-.

Has also a title-page reading: Muspratt's theoretische, praktische und analytische Chemie in Anwendung auf Künste und Gewerbe.

Harris, William A.

660.3 0900

⁴⁹⁹¹ A technological dictionary of insurance chemistry. xi,407 p. D. Liverpool: published by the author at the Phœnix Fire Office, 1890.

Thorpe, Thomas Edward, *editor*.

660.3 P100

¹²⁰⁰ A dictionary of applied chemistry. . . . 3 vol. il. O. London: Longmans, Green, & Co., 1893-1895.

Vol. 1: third edition, 1894. Vol. 2: second edition, 1895. Vol. 3: 1893.

Weidinger, G.

660.3 P101

⁵⁹⁹⁵ G. Weidinger's Waarenlexikon der chemischen Industrie und der Pharmacie. Mit Berücksichtigung der wichtigsten Nahrungs- und Genussmittel. Unter Mitwirkung der Herren Dr. Med. Joseph Moeller, Dr. Hermann Thoms, K. Thümmel, herausgegeben von Dr. T. F. Hanausek. Zweite gänzlich umgearbeitete Auflage. . . . iv, 1000 p. O. Leipzig: G. H. Meyer, 1896, pref. 1891.

661-669 SPECIAL SUBJECTS

Lunge, Georg.

661 P100

⁵¹⁸⁵ A theoretical and practical treatise on the manufacture of sulphuric acid and alkali, with the collateral branches. Second edition, revised and enlarged. 3 vol. il. pl. tables. O. London: Gurney & Jackson, 1891-1896.

Fulton, John, *E. M.*

662.7 P500

⁴⁶⁰⁹ Coke. A treatise on the manufacture of coke and the saving of by-products. With special references to the methods and ovens best adapted to the production of good coke from the various American coals. [2], vi, 342 p. il. 4 pl. 1 por. O. Scranton, Pa.: Colliery Engineer Co., 1895.

Hansen, Emil Christian.

663.1 P500

⁴³²⁹ Practical studies in fermentation: being contributions to the life history of micro-organisms. Translated by Alex. K. Miller, and revised by the author. xiv, 277 p. 19 il. O. London: E. & F. N. Spon, 1896.

Sykes, Walter John.

663.3 P701

¹⁷⁶⁶⁵ The principles and practice of brewing. xix, 511 p. il. 1 pl. O. London: C. Griffin & Co., 1897.

Sulz, Charles Hermann.

663.6 O800

¹⁷²⁹³ A treatise on beverages; or, The complete practical bottler. Full instructions for laboratory work with original practical recipes for all kinds of carbonated drinks, mineral waters, flavorings, extracts, syrups, etc. xxv, 818 p. 428 il. O. New York: C. H. Sulz & Co., 1888.

Brannt, William Theodore.**665.5 P400**

- ⁴³³¹ Petroleum: its history, origin, occurrence, production, physical and chemical constitution, technology, examination and uses; together with the occurrence and uses of natural gas. Edited chiefly from the German of Prof. Hans Hoefer and Dr. Alexander Veith. xxvii,715 p. 284 il. 1 pl. 2 maps. O. Philadelphia: H. C. Baird & Co., 1895.

Butterfield, W. J. Atkinson.**665.7 P500**

- ⁴⁹⁸⁹ Gas manufacture: the chemistry of. A practical handbook on the production, purification, and testing of illuminating gas, and the assay of the bye-products of gas manufacture. . . . xiv,375 p. il. 1 pl. D. London: C. Griffin & Co., 1896.

Gibbs, William E.**665.801 P900**

- ¹⁹⁰⁹⁰ Lighting by acetylene. Generators, burners and electric furnaces. Second edition, revised and enlarged. ix,161 p. 64 il. D. New York: D. Van Nostrand Co., 1899.

Nesbitt, Alexander.**666.1 N800**

- ⁴⁹⁴⁶ Glass. viii,143 p. il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] New York: Scribner & Welford, 1879.

Powell, Harry James.**666.1 O300**

- ¹²¹²³ The principles of glass-making, by Harry J. Powell, together with treatises on crown and sheet glass, by Henry Chance, and plate glass, by H. G. Harris. vi,186 p. il. D. (Technological handbooks.) London: G. Bell & Sons, 1883.

"List of works relating to glass manufacture," p. 179-180.

Hummel, J. J.**667.2 O500**

- ⁵⁰¹⁹ The dyeing of textile fabrics. . . . xii,534 p. 97 il. S. [Manuals of technology.] London: Cassell & Co., 1896, pref. 1885.

Terry, George.**667.6 P300**

- ⁵³²³ Pigments, paint, and painting. A practical book for practical men. xi,[2],392 p. 49 il. D. London: E. & F. N. Spon, 1893.

Brannt, William Theodore.**667.7 P300**

- ⁴⁵⁰⁹ Varnishes, lacquers, printing inks and sealing-waxes: their raw materials and their manufacture. To which is added the art of varnishing and lacquering, including the preparation of putties and of stains for wood, ivory, bone, horn, and leather. xix,338 p. 39 il. O. Philadelphia: H. C. Baird & Co., 1893.

- Carpenter, William Lant.** 668.1 P500
⁵⁰¹¹ A treatise on the manufacture of soap and candles, lubricants and glycerin. Second edition, revised and enlarged by Henry Leask. x,[2],446 p. 104 il. D. London: E. & F. N. Spon, 1895.
- Piesse, Charles Henry.** 668.5 P100
⁵⁴¹⁷ Piesse's art of perfumery and the methods of obtaining the odours of plants. The growth and general flower farm system of raising fragrant herbs. . . . Fifth edition. xvii,498 p. il. 1 pl. O. London: Piesse & Lubin, 1891.
- Lunge, Georg.** 668.7 O700
⁵³⁴⁵ Coal-tar and ammonia. Being the second and enlarged edition of 'A treatise on the distillation of coal-tar and ammoniacal liquor.' xvi,739 p. 191 il. O. London: Gurney & Jackson, 1887.
- Meldola, Raphael.** 668.7 P100
⁵⁴¹⁵ Coal and what we get from it. A romance of applied science. Expanded from the notes of a lecture delivered in the theatre of the London Institution, Jan. 20th, 1890. . . . 210 p. 11 il. S. (Romance of science.) London: Society for Promoting Christian Knowledge, 1891.
- Austen, William Chandler Roberts-.** 669.02 P400
⁵⁰⁰² An introduction to the study of metallurgy. Third edition, revised and enlarged. . . . xvi,379 p. il. 1 pl. 1 table. O. London: C. Griffin & Co., 1894.
- Schnabel, Carl.** 669.02 P404
¹⁶⁶⁹⁶ Handbook of metallurgy. Translated by Henry Louis. . . . 2 vol. il. O. London: Macmillan & Co., 1898.
- Richards, Joseph William.** 669.703 P500
⁴⁵²⁹ Aluminium: its history, occurrence, properties, metallurgy and applications, including its alloys. Third edition, revised and enlarged. xv,666 p. 46 il. O. Philadelphia: H. C. Baird & Co., 1896.
- Furman, Howard Van Fleet.** 669.9 P600
⁴³²² A manual of practical assaying. Fourth edition, revised and enlarged. . . . vi,437 p. il. O. New York: J. Wiley & Sons, 1896.

670 MANUFACTURES

Lewis, J. Slater.**L670.2 P600**

⁵⁹⁵³ The commercial organisation of factories. A handbook for the use of manufacturers, directors, auditors, engineers, . . . , etc. xxxvi,540 p. il. 2 tables, 3 tables in pocket. Q. London: E. & F. N. Spon, 1896.

Bolland, Simpson.**671 P400**

²⁹²⁶ The encyclopedia of founding and dictionary of foundry terms, used in the practice of moulding. . . . First edition. . . . iv,535 p. D. New York: J. Wiley & Sons, 1894.

Smith, Oberlin.**671 P600**

²⁹²⁷ Press-working of metals. A treatise upon the principles and practice of shaping metals in dies by the action of presses, First edition. . . . 276 p. 431 il. 1 pl. O. New York: J. Wiley & Sons, 1896.

Brannt, William Theodore.**671 P603**

¹²⁰⁵⁸ The metal worker's handy-book of receipts and processes. Being a collection of chemical formulas and practical manipulations for the working of all the metals and alloys; including the decoration and beautifying of articles manufactured therefrom, as well as their preservation. Edited from various sources. xxiii,33-538 p. 63 il. D. Philadelphia: H. C. Baird & Co., 1896, c. 1890.

Warn, Reuben Henry.**671 P604**

¹²³¹⁴ The sheet-metal worker's instructor, comprising a selection of geometrical problems and practical rules for describing the various patterns required by zinc, sheet-iron, copper, and tin-plate workers. New edition, revised and greatly enlarged by Joseph G. Horner. vii,246 p. 429 il. D. London: C. Lockwood & Son, 1896.

Brannt, William Theodore.

671 P605

¹⁵⁵²⁵ The metallic alloys. A practical guide for the manufacture of all kinds of alloys, amalgams, and solders, used by metal-workers; together with their chemical and physical properties and their application in the arts and the industries; with an appendix on the coloring of alloys and the recovery of waste metals. A new, revised, and enlarged edition. xxvii, 527 p. 34 il. O. Philadelphia: H. C. Baird & Co., 1896.

Compiled principally from the following: Thurston, R. H. A treatise on brasses, bronzes and other alloys; Krupp, A. Die Legirungen; Ledebur, A. Die Metallverarbeitung auf chemischphysikalischem Wege; Muspratt, J. S. Theoretische, praktische und analytische Chemie.

Fuller, John, Sr.

671.19 P300

³³⁴² Art of coppersmithing. A practical treatise on working sheet copper into all forms. [2], vii, 327 p. 475 il. 2 pl. 1 por. O. New York: D. Williams, 1894.

Wigley, Thomas B.

671.45 P800

¹⁹⁵²⁹ The art of the goldsmith and jeweller: a treatise on the manipulation of gold in the various processes of goldsmith's work, and the manufacture of personal ornaments, &c., &c. By Thomas B. Wigley, assisted by John H. Stansbie. xi, 248 p. 144 il. O. London: C. Griffin & Co., 1898.

Lethaby, William Richard.

671.49 P300

³³³⁴ Leadwork, old and ornamental and for the most part English. viii, 148 p. 76 il. D. London: Macmillan & Co., 1893.

Gee, George E.

671.81 O500

¹⁶⁵²² The silversmith's handbook. Containing full instructions for the alloying and working of silver. . . . Third edition. xxvi, 221 p. 40 il. S. [Weale's scientific & technical series.] London: C. Lockwood & Son, 1890.

Smith, J. Bucknall.

L671.97 P100

²⁹⁶⁷ A treatise upon wire, its manufacture and uses, embracing comprehensive descriptions of the constructions and applications of wire ropes. xxii, [2], 347 p. il. 2 pl. 1 table. Q. London: "Engineering," 1891.

Ede, George.

672 M300

³⁹¹⁹ The management of steel. Sixth edition. xii, 204 p. D. London: E. & F. N. Spon, 1891.

Gardner, John Starkie.**672 P200**

⁹⁵³ Ironwork. . . . [2 vol.] il. D. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, 1893-1897.

Contents: Vol. 1. From the earliest time to the end of the Mediæval period. Vol. 2. From the close of the Mediæval period to the end of the eighteenth century, excluding English work.

Leland, Charles Godfrey.**675 P200**

¹⁰⁹⁰ Leather work. A practical manual for learners. xiii,96 p. 60 il. 1 pl. sq.O. London: Whittaker & Co., 1892.

Davis, Charles Thomas.**675 P700**

¹²³⁶⁷ The manufacture of leather: being a description of all of the processes for the tanning and tawing . . . , and the currying, finishing and dyeing of every kind of leather; . . . , with special reference to the best American practice. To which are added lists of American patents (1884-1897) Second edition, revised and in great part rewritten. xxxii,680 p. 147 il. 2 pl. O. Philadelphia: H. C. Baird & Co., 1897.

Cross, C. F., & Bevan, E. J.**676 O700**

³⁷⁸⁸ Text-book of paper-making. vii,244 p. 81 il. 3 pl. D. London: E. & F. N. Spon, 1888.

Watt, Alexander.**676 P001**

³⁵⁹³ The art of paper-making: a practical handbook of the manufacture of paper . . . , including the manufacture of pulp from wood fibre. With a description of the machinery and appliances used. To which are added details of processes for recovering soda from waste liquors. xii,260 p. 86 il. D. London: C. Lockwood & Son, 1890.

Bell, T. F.**677 P401**

³³⁶⁴ Jacquard weaving and designing. vi,[2],303 p. 199 il. O. London: Longmans, Green, & Co., 1895.

Taggart, William Scott.**677.19 P501**

³²³³ Cotton spinning. . . . 3 vol. il. 1 pl. D. London: Macmillan & Co., 1896-1898.

Vol. 2 reprinted from *The Textile mercury*.

680 TRADES**Leland, Charles Godfrey.****680.2 P600**

⁶⁰⁶³ A manual of mending and repairing. xxi,264 p. il. D. New York: Dodd, Mead & Co., 1896.

- Glasgow, David.** 681 O500
³⁹⁹⁵ Watch and clock making. xii,341 p. 68 il. S. [Manuals of technology.] London: Cassell & Co., 1893.
- Richardson, Milton Thomas, *editor*.** 682 P001
²⁹⁹⁵ Practical blacksmithing. A collection of articles contributed at different times by skilled workmen to the columns of "The Blacksmith and wheelwright" 4 vol. il. D. New York: M. T. Richardson, 1890-1895.
- Compton, Alfred George.** 682 P002
⁴⁶⁴⁴ First lessons in metal working. iv,[2],170 p. 95 il. D. New York: J. Wiley & Sons, 1890.
- Goss, William Freeman Myrick.** 684 O700
⁵⁴⁰³ Bench work in wood: a course of study and practice designed for the use of schools and colleges. xi,161 p. 306 il. D. Boston, U. S. A.: Ginn & Co., 1896, c. 1887.
- Cabinet maker.** 684 P200
⁴⁰³⁷ The cabinet maker: a practical guide to the principles of design, and the economical and sound construction of household furniture, furnishings, and fittings; Edited by the editor of "The industrial self-instructor." xii,178 p. il. 10 pl. O. [Practical mechanic series.] London: Ward, . . . , & Co., 1892.
- Hasluck, Paul N.** 684.1 O300
¹⁶³¹² Lathe-work. A practical treatise on the tools, appliances, and processes employed in the art of turning . . . etc. Sixth edition. xii,212 p. 51 il. D. London: C. Lockwood & Son, 1898.
- Lukin, James.** 684.1 O800
⁴⁵³¹ Turning lathes: a manual for technical schools and apprentices. A guide to turning, screw-cutting, metal-spinning, &c., &c. vi, [2],160 p. il. D. London: E. & F. N. Spon, 1888.
- Golden, Michael Joseph.** 684.1 P700
⁵¹⁶⁵ A laboratory course in wood-turning. [2],69 p. 123 il. O. New-York: Harper & Brothers, 1897.
- Richardson, Milton Thomas, *editor*.** 684.5 P200
²⁹⁹⁹ Practical carriage building: comprising numerous short practical articles 2 vol. il. D. New York: M. T. Richardson Co., 1892.
- Burr, S. D. V., *editor*.** 684.7 P600
²⁹⁵⁰ Bicycle repairing. A manual compiled from articles in the Iron age. . . . 166 p. il. O. New York: D. Williams, 1896.

- Sharp, Archibald.** 684.7 P601
⁵⁹³⁵ Bicycles & tricycles. An elementary treatise on their design and construction. . . . xviii, 536 p. 565 il. D. London: Longmans, Green, & Co., 1896.
- Taylor, A. J. Wallis.** 684.7 P700
⁷³⁵¹ Modern cycles. A practical handbook on their construction and repair. xvi, 340 p. 304 il. 1 pl. D. London: C. Lockwood & Son, 1897.
- Crane, W. J. E.** 686 O500
¹⁶⁶⁵ Bookbinding for amateurs: being descriptions of the various tools and appliances required and minute instructions for their effective use. vi, [2], 184 p. 156 il. D. London: L. Upcott Gill, [1885].
- Zaehnsdorf, Joseph William.** 686 P001
²¹³³ The art of bookbinding. A practical treatise. Second edition, . . . enlarged. xix, 190 p. il. 8 pl. D. (Technological handbooks.) London: G. Bell & Sons, 1890.
- Prideaux, Sarah Treverbian.** 686 P300
¹⁹ An historical sketch of bookbinding, with a chapter on early stamped bindings by E. Gordon Duff. vi, [2], 303 p. 3 pl. O. London: Lawrence & Bullen, 1893.
 Contains a bibliography of bookbinding.
- Horne, Herbert P.** 686 P401
³⁷⁰⁶ The binding of books. An essay in the history of gold-tooled bindings. xiii, [3], 224 p. 1 il. 13 pl. O. [Books about books.] London: Kegan Paul, . . . , & Co., 1894.

690 BUILDING

- Hatfield, Robert Griffith.** 690.2 O003
³¹¹⁵ The American house carpenter. A treatise on the art of building. . . . ; together with a compend of mathematics. . . . Eighth edition, rewritten and enlarged. Edited by O. P. Hatfield. Twelfth edition. . . . [2], 685 p. 450 il. 16 pl. O. New York: J. Wiley & Sons, 1895, c. 1880.
- Spon, E. & F. N., publishers.** 690.2 O401
⁴⁶²⁶ Spons' mechanics' own book: a manual for handicraftsmen and amateurs. Third edition. xii, 702 p. 1424 il. O. London 1889.

Berg, Louis de Coppet.

690.2 O900

³⁰⁴⁷ Safe building: a treatise giving ... the practical and theoretical rules and formulæ used in the construction of buildings. 2 vol. il. pl. tables. O. Boston: Ticknor & Co., 1892-1894.

Vol. 1: fourth edition, revised, published in 1894, c. 1889.

Kidder, Frank Eugene.

690.2 P600

⁵⁶³⁵ Building construction and superintendence. Part I-. il. O. New York: W. T. Comstock, 1896-.

Thurston, Robert Henry.

691 O900

³¹⁵⁵ ... Materials of engineering. 3 vol. il. pl. table. O. New York: J. Wiley & Sons, 1893-1898.

Contents: Vol. 1. A treatise on the non-metallic materials of engineering, stone, timber, fuel, lubricants, etc. Vol. 2. A treatise on iron and steel. Vol. 3. A treatise on brasses, bronzes, and other alloys, and their constituent metals.

Vol. 1 is in fourth revised edition; vol. 2, in seventh revised edition; vol. 3, in third edition, revised.

Newman, John.

691.7 P602

⁶⁴⁴⁶ Metallic structures: corrosion and fouling, and their prevention. A practical aid-book to the safety of works in iron and steel, and of ships; and to the selection of paints for them. xi, 374 p. il. D. London: E. & F. N. Spon, 1896.

Leaning, J.

692.5 P700

⁷⁴⁶⁷ Quantity surveying. For the use of surveyors, architects, engineers, and builders. Third edition, revised and enlarged. ... xvi, 547 p. 68 il. O. London: E. & F. N. Spon, 1897.

Clark, Theodore Minot.

692.6 O300

³⁰⁶⁴ Building superintendence: a manual for young architects, students, and others interested in building operations as carried on at the present day. Thirteenth edition. [4], 336 p. 194 il. O. New York: Macmillan & Co., 1895, c. 1883.

Baker, Ira Osborn.

693 P900

²⁰⁰³² A treatise on masonry construction. Ninth edition, revised and partially rewritten. ... xiii, 556 p. 160 il. 6 pl. O. New York: J. Wiley & Sons, 1899.

Kemp, Wilfred.

693.6 P300

³⁷⁴⁰ The practical plasterer: a compendium of plain and ornamental plaster work, with useful recipes and a glossary of terms. vi, [2], 184 p. 52 il. nar. D. London: C. Lockwood & Son, 1893.

Industrial School Association, Boston.

694 O100

²⁹⁴¹ Wood-working tools; how to use them. A manual. ix, 101, [1], p. il. D. Boston: D. C. Heath & Co., 1887, c. 1881.

Kilbon, George Baldwin.**694 P300**

- ³⁰⁴⁴ Manual training. Elementary woodwork: a series of sixteen lessons taught in the senior grammar grade at Springfield, Mass., and designed to give fundamental instruction in use of all the principal tools needed in carpentry and joinery. [4],99 p. 207 il. D. Boston: Lee & Shepard, 1893.

Young, Francis Chilton-.**694 P500**

- ³⁷²¹ Home carpentry for handy men: a book of practical instruction in ... constructive and decorative work in wood vii,772 p. 571 il. O. London: Ward, Lock & Bowden, 1895.

Davies, Philip John.**696 O500**

- ³⁷²² Standard practical plumbing: being a complete encyclopædia for practical plumbers and guide for architects, builders, gas fitters, hot water fitters, ironmongers, lead burners, sanitary engineers, zinc workers, 2 vol. il. pl. por. sq.O. London: E. & F. N. Spon, 1895-1896.

Vol. 1 in fourth, revised edition.

Carpenter, Rolla Clinton.**697 P501**

- ³⁴⁰⁸ Heating and ventilating buildings. An elementary treatise. First edition. xiii,411 p. 228 il. 1 pl. O. New York: J. Wiley & Sons, 1896.

Baldwin, William James.**697.4 O900**

- ³³⁶⁷ Hot-water heating and fitting; or, Warming buildings by hot-water. Third edition, [8],392,[6] p. il. 2 pl. O. New York: Engineering Record, 1891.

Hood, Charles.**697.4 P700**

- ⁸²¹² A practical treatise upon warming buildings by hot water and upon heat and heating appliances in general. With an enquiry respecting ventilation, the cause and action of draughts in chimneys or flues, and the laws relating to combustion. Rewritten by Frederick Dye. Third new edition, fully revised to date. xvi, 593 p. 369 il. O. London: E. & F. N. Spon, 1897.

Steam-heating problems.**697.5 O800**

- ³⁰⁴⁹ Steam-heating problems; or, Questions, answers, and descriptions relating to steam-heating and steam-fitting, from The Engineering record. 233 p. 109 il. O. New York: Engineering record, 1891.

Pearce, Walter John.**698 P700**

- ¹⁵¹³⁵ Painting and decorating. xvi,[2],312 p. 88 il. 34 pl. O. London: C. Griffin & Co., 1898.

700 FINE ARTS

701-709 GENERAL WORKS

Adeline, [Jules].**703 A229**

¹⁵⁴⁰⁵ Adeline's art dictionary. Containing a complete index of all terms used in art, architecture, heraldry, and archæology. Translated from the French, and enlarged. vii,422 p. il. O. New York D. Appleton & Co., 1891.

Crane, Walter.**704 C85**

⁹⁶¹⁰ The claims of decorative art. vi,[2],191 p. il. sq.O. Boston: Houghton, Mifflin, & Co., 1892.

Contents: The claims of decorative art. The architecture of art. Figurative art. Sculpture: from a decorator's point of view. Painting at the present day: from a decorator's point of view. On the structure and evolution of decorative pattern. Art and labour. Art and handicraft. The prospects of art under socialism. On the teaching of art. Design in relation to use and material. The importance of the applied arts, and their relation to common life. Art and commercialism. Art and social democracy. Imitation and expression in art. Art and industry.

Day, Lewis Foreman.**704 D33**

⁹⁵⁵⁷ Some principles of every-day art: introductory chapters on the arts not fine. 2nd edition, revised. [6],148 p. 70 il. 1 pl. D. London: B. T. Batsford, 1894.

Miller, Fred.**704 M61**

¹¹⁴¹³ The training of a craftsman. Illustrated by many workers in the art crafts. x,249 p. 161 il. O. New York: Truslove & Comba, 1898.

Contents: 1. The craftsman and nature. 2. Design and craftsmanship. 3. Metal work. Repoussé and fine metal-work. Wrought iron. 4. Jewellery. 5. Enamelling on metal. 6. Potters and painters. 7. Glass painters. 8. Wood carvers. 9. Book-binders. 10. Women workers in the art crafts. 11. Surface decoration. 12. Decoration in relief. 13. Wall-papers and textiles. 14. The craftsman up-to-date and his outlook.

Morris, William.**704 M83**

¹⁴³⁷⁷ Hopes and fears for art. Five lectures delivered in Birmingham, London, and Nottingham 1878-1881. Fifth edition. [2],218 p. 1 pl. D. London: Longmans, Green, & Co., 1898.

Contents: The lesser arts. The art of the people. The beauty of life. Making the best of it. The prospects of architecture in civilisation.

Ruskin, John.**704 R89**

⁶⁷⁶³ The eagle's nest. Ten lectures on the relation of natural science to art, given before the University of Oxford ... , 1872. With an introduction by Charles Eliot Norton. Brantwood edition. xx,260 p. D. New York: Maynard, Merrill & Co., 1893.

Contents: 1. Of wisdom and folly in art. 2. Of wisdom and folly in science. 3. The relation of wise art to wise science. 4. The power of modesty in science and art. 5. The power of contentment in science and art. 6. The relation to art of the science of light. 7. The relation to art of the sciences of inorganic form. 8. The relation to art of the sciences of organic form. 9. The story of the halcyon. 10. The heraldic ordinaries.

Ruskin, John.**704 R891**

⁶⁷⁵⁹ The two paths. Being lectures on art and its application to decoration and manufacture, delivered in 1838-9. With an introduction by Charles Eliot Norton. Brantwood edition. xvii,[2], 270 p. D. New York: Maynard, Merrill & Co., 1893.

Contents: 1. The deteriorative power of conventional art over nations. 2. The unity of art. 3. Modern manufacture and design. 4. Influence of imagination in architecture. 5. The work of iron, in nature, art, and policy.

Arts and Crafts Exhibition Society, *London.***706.204 1**

¹¹³⁶⁸ Art and life, and the building and decoration of cities: a series of lectures by members of the Arts and Crafts Exhibition Society, delivered at the fifth exhibition of the society in 1896. [6],260 p. D. London: Rivington, Percival, & Co., 1897.

Contents: 1. Sanderson, T. J. Cobden-. Of art and life. 2. Lethaby, W. R. Of beautiful cities. 3. Crane, W. Of the decoration of public buildings. 4. Blomfield, R. Of public spaces, parks and gardens. 5. Ricardo, H. Of colour in the architecture of cities.

Ashbee, Charles Robert.**707 A819**

¹⁷⁰⁰⁰ A few chapters in workshop re-construction and citizenship. 165,[1] p. O. London: Guild and School of Handicraft, 1894.

Contents: 1. Some definitions towards an ideal. 2. On the need for the cultivation of the sense of beauty and the questionable wisdom of looking for this from the British middle class. 3. How can we "run" art at our polytechnics. 4. Decorative art from a workshop point of view. 5. An industrial dialogue between Mr. Archibald Pushington, M. P., and Mr. Thomas Trudge. 6. The honest endeavour of Timothy Thumbs, teacher and humanist. 7. On the higher aspects of technical education and the elementary teacher. 8. On the teaching of design and its bearing on workshop re-construction. 9. University Extension and the workshop—a problem and a policy. 10. The policy developed towards workshop reconstruction. 11. The relation of the architect towards workshop reconstruction. 12. On the possibility of a metropolitan school of architecture. 13. Where is the builder of ideas? 14. The art and technical instructor of to-day and the little citizen of the future. 15. On Jack's initiation into the citizenship.

Reber, Franz von.

709 R24

¹⁵⁸⁶⁷ History of mediæval art. Translated by Joseph Thatcher Clarke. xxxi,743 p. 422 il. O. New York: Harper & Brothers, 1897, c. 1886.

Conway, Sir William Martin.

709.1 C76

¹⁸⁷⁸⁷ Dawn of art in the ancient world. An archaeological sketch. viii,189 p. D. New York: Macmillan & Co., 1891.

Cook, Edward Tyas.

709.276 C77

¹⁸⁹⁴¹ Studies in Ruskin: some aspects of the work and teaching of John Ruskin. Second edition. xiv,304 p. il. 8 pl. 1 por. D. Orpington: G. Allen, 1891.

Perrot, Georges, & Chipiez, Charles.

L709.3 P42

¹⁷⁶⁴⁶ History of art in Sardinia, Judæa, Syria, and Asia Minor. From the French. Translated and edited by I. Gonino. 2 vol. il. pl. Q. London: Chapman & Hall, 1890.

Perrot, Georges, & Chipiez, Charles.

L709.351 P42

¹⁸¹²¹ A history of art in Chaldæa & Assyria. From the French. Translated and edited by Walter Armstrong. 2 vol. il. pl. Q. London: Chapman & Hall, 1884.

Perrot, Georges, & Chipiez, Charles.

L709.355 P42

¹¹⁸⁹² History of art in Persia. From the French. xii,508 p. 254 il. 12 pl. Q. London: Chapman & Hall, 1892.

Perrot, Georges, & Chipiez, Charles.

L709.38 P42

¹⁷⁶⁴⁵ History of art in primitive Greece. Mycænic art. From the French. 2 vol. il. pl. Q. London: Chapman & Hall, 1894.

Perrot, Georges, & Chipiez, Charles.

L709.39 P42

¹⁷⁶⁴⁴ History of art in Phœnicia and its dependencies. From the French. Translated and edited by Walter Armstrong. 2 vol. il. pl. Q. London: Chapman & Hall, 1885.

Perrot, Georges, & Chipiez, Charles.

L709.392 P42

¹¹⁸⁹¹ History of art in Phrygia, Lydia, Caria, and Lycia. From the French. xii,405 p. 283 il. Q. London: Chapman & Hall, 1892.

711 LANDSCAPE GARDENING

Parsons, Samuel.**L710.2 P25**

¹⁴⁷¹¹ Landscape gardening. Notes and suggestions on lawns and lawn planting—laying out and arrangement of country places, large and small parks, cemetery plots, and railway-station lawns—deciduous and evergreen trees and shrubs—the hardy border—bedding plants—rockwork, etc. xxii,329 p. il. 1 pl. Q. New York: G. P. Putnam's Sons, 1895.

Robinson, William.**710.2 R56**

¹⁶⁶⁵⁵ The English flower garden. Design and arrangement shown by existing examples of gardens in Great Britain and Ireland followed by a description of the best plants for the open-air garden and their culture. Sixth edition. xii,832 p. il. O. London: J. Murray, 1898.

Rose, Nils Jönsson.**L710.2 R72**

⁸⁷⁶⁵ Lawns and gardens. How to plant and beautify the home lot, the pleasure ground and garden. xi,414 p. 172 il. 1 pl. Q. New York: G. P. Putnam's Sons, 1897.

Amherst, Alicia M. T.**L710.9 A515**

⁹⁰⁹¹ A history of gardening in England. xvi,398 p. il. Q. London: B. Quaritch, 1895.

"Bibliography of works on English gardening", p. 323-389.

May, W. J.**716 M45**

¹⁰⁰⁴⁹ Greenhouse management for amateurs: descriptions of the best greenhouses and frames, ... ; particulars of the various methods of heating; illustrated descriptions of the most suitable plants, with general and special cultural directions; Second edition, revised and enlarged. [4],379 p. 128 il. D. London: L. U. Gill, [1897].

Robinson, William.**716 R56**

¹⁶⁹⁹⁹ The wild garden; or, The naturalization and natural grouping of hardy exotic plants, with a chapter on the garden of British wild flowers. Fourth edition illustrated by Alfred Parsons. xx,304 p. il. 11 pl. paged in, 1 pl. O. London: J. Murray, 1894.

720 ARCHITECTURE

Ruskin, John.**720.1 R89**

¹⁶²⁹⁶ The seven lamps of architecture. With illustrations drawn by the author, and an introduction by Charles Eliot Norton. Brantwood edition. xxiv,401 p. 14 pl. D. New York: C. E. Merrill & Co., 1892.

Statham, Henry Heathcote.**720.2 S797**

¹⁶⁵⁵⁹ Architecture for general readers. A short treatise on the principles and motives of architectural design. With a historical sketch. Second edition, revised. xvi,332 p. il. 12 pl. O. New York: C. Scribner's Sons, 1896.

Viollet-le-Duc, [Eugène Emmanuel].**720.3 V81**

¹⁶⁹⁹⁷ Dictionnaire de l'architecture française du XI^e au XVI^e siècle. 10 vol. il. por. O. Paris: vol. 1, 9, v^e A. Morel & C^{ie}, vol. 2-8, 10, A. Morel, 1867-1873.

Vol. 10 is index.

"Henri Sabine. Table analytique et synthétique ...", was published separately in 1889.

Vol. 1 published in 1873.

Singleton, Esther, *editor*.**720.8 2**

¹⁶⁸⁸⁷ Turrets, towers, and temples. The great buildings of the world, as seen and described by famous writers. Edited and translated by Esther Singleton. xii,317 p. 48 pl. O. New York: Dodd, Mead & Co., 1899.

Fletcher, Banister, & Fletcher, Banister F.**720.9 F63**

⁷⁸⁷⁶ A history of architecture. . . . Being a comparative view of the historical styles, from the earliest period. Second edition, reprinted from the first. xv,[1],313 p. il. 115 pl. D. London: B. T. Batsford, 1896.

Mathews, Charles Thompson.**720.9 M42**

⁵⁹¹⁶ The story of architecture: an outline of the styles in all countries. xvi, 468 p. 1 pl. 175 il. O. New York: D. Appleton & Co., 1896.

Viollet-le-Duc, Eugène [Emmanuel].**720.9 V81**

⁸⁸⁶⁷ The habitations of man in all ages. Translated by Benjamin Bucknall. xvi,394 p. il. 9 pl. O. Boston: J. R. Osgood & Co., 1876.

Sturgis, Russell.**720.94 S935**

⁹²²² European architecture. A historical study. xxviii,578 p. 256 il. 10 pl. O. New York: Macmillan Co., 1896.

Viollet-le-Duc, Eugène Emmanuel.

721 V81

²⁹⁰⁴ Rational building: being a translation of the article "Construction" in the *Dictionnaire raisonné de l'architecture française*, of M. Eugène-Emmanuel Viollet-le-Duc, by George Martin Huss. xii,367 p. 156 il. O. New York: Macmillan & Co., 1895.

Corroyer, Édouard.

723.5 C81

¹⁸⁹⁶¹ Gothic architecture. Edited by Walter Armstrong. [Translated by Florence Simmonds.] xvi,388 p. 236 il. 1 pl. D. New York: Macmillan & Co., 1893.

Perkins, Thomas.

723.5 P41

¹⁸⁴⁹⁴ Handbook to Gothic architecture ecclesiastical and domestic for photographers and others. 223,[1] p. il. 1 pl. D. London: Hazell, Watson, & Viney, 1897.

Statham, Henry Heathcote.

724 S797

¹⁷⁸¹⁶ Modern architecture. A book for architects and the public. x,281 p. 145 il. 1 pl. O. London: Chapman & Hall, 1897.

730-740 DECORATIVE ARTS

Bemrose, William.

L736 B42

⁷⁵⁸¹ Manual of wood carving. With practical instructions for learners of the art, and original and selected designs. With an introduction by Llewellynn Jewitt. Twentieth edition. 72 p. il. 1 pl. sq.Q. London: Bemrose & Sons, [1862].

Humphreys, Henry Noel.

737 H881

³³¹⁷ The coin collector's manual, or Guide to the numismatic student in the formation of a cabinet of coins: comprising an historical and critical account of the origin and progress of coinage, . . . 2 vol. il. pl. D. London: G. Bell & Sons, 1876.

Barber, Edwin Atlee.

L738 B23

⁴³³⁴ The pottery and porcelain of the United States: an historical review of American ceramic art from the earliest times to the present day. xvii,446 p. 222 il. 1 pl. Q. New York: G. P. Putnam's Sons, 1893.

Young, Jennie J.

738 Y8

⁶⁵⁶⁴ The ceramic art. A compendium of the history and manufacture of pottery and porcelain. [2],499 p. 464 il. O. New York: Harper & Brothers, 1879.

- Fortnum, Charles Drury Edward.** 738.54 F77
¹⁰⁶ Maiolica. vii, 192 p. 82 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1875.
- Fortnum, Charles Drury Edward.** 739 F77
¹¹⁰ Bronzes. viii, 162 p. 28 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1877.
- Leland, Charles Godfrey.** 739 L53
³³⁶⁵ Elementary metal work: a practical manual for amateurs and for use in schools. xvi, 111 p. 124 il. 1 pl. sq. O. New York: Macmillan & Co., 1894.
- Day, Lewis Foreman.** 740.2 D33
⁹⁹¹⁵ Nature in ornament. xxiii, 247 p. 192 il. 123 pl. D. (Text books of ornamental design.) London: B. T. Batsford, 1892.
- Day, Lewis Foreman.** 740.2 D33I
⁹⁹²⁰ The planning of ornament. Third edition, further revised, xi, 49 p. 41 pl. D. (Text books of ornamental design, no. 2.) London: B. T. Batsford, 1893.
- Day, Lewis Foreman.** 740.2 D332
⁹⁹²¹ The application of ornament. Fourth edition, further revised. xi, [1], 76 p. il. 48 pl. D. (Text books of ornamental design, no. 3.) London: B. T. Batsford, 1896.
- Mayeux, Henri.** 740.2 M45
⁶⁰⁹¹ A manual of decorative composition. For designers, decorators, architects, and industrial artists. Translated by J. Gonino. ix, 310 p. 267 il. D. New York: D. Appleton & Co., 1888.
- Meyer, Franz Sales.** 740.2 M57
¹³⁵⁸⁴ A handbook of ornament. Third English edition, revised by Hugh Stannus. xvi, 548 p. il. O. London: B. T. Batsford, 1896.
- Redgrave, Richard.** 740.2 R24
¹⁰⁸ Manual of design, compiled from the writings and addresses of Richard Redgrave by Gilbert R. Redgrave. viii, 173 p. 18 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1876.
- Ruskin, John.** 740.2 R89
⁶⁷⁶⁵ The elements of drawing in three letters to beginners. With an introduction by Charles Eliot Norton. Brantwood edition. xxxvi, [2], 380 p. 48 il. D. New York: Maynard, Merrill, & Co., c. 1893.

Viollet-le-Duc, [Eugene Emmanuel].**740.2 V81**

³²⁶⁰ Learning to draw; or, The story of a young designer. Translated from the French by Virginia Champlin. . . . v,[3],324 p. 110 il. D. New York: G. P. Putnam's Sons, 1888, c. 1880.

Ward, James.**740.2 W21**

⁷⁵⁷² The principles of ornament. Edited by George Aitchison. New and enlarged edition. xix,207 p. 189,38 il. 1 pl. O. New York: C. Scribner's Sons, 1896.

White, Gleeson, *editor*.**740.2 W58**

¹¹⁰⁴⁷ Practical designing. A handbook on the preparation of working drawings. . . . [Second edition.] viii,327 p. il. 4 pl. D. London: G. Bell & Sons, 1894.

Contents: Millar, A. Carpet designing. Silver, A. Woven fabrics. Rix, W. P. Pottery. Carter, O. Tiles. Rathbone, R. Ll. B. Metal work. Image, S. Stained glass. White, G. Drawing for reproduction. Orrinsmith, H. Book-binding. Silver, A. Printed fabrics. —. Floorcloths. Haité, G. C. Wall papers.

Rouaix, Paul.**L740.3 R75**

¹⁷³³⁶ Dictionnaire des arts décoratifs à l'usage des artisans, des artistes, des amateurs et des écoles. [2],vii,1042,[2] p. 541 il. 1 pl. Q. Paris: Librairie Illustrée, [1885].

Day, Lewis Foreman.**740.4 D33**

⁹⁹¹⁹ The anatomy of pattern. Fourth edition, revised xi,56 p. il. 41 pl. D. (Text books of ornamental design, no. 1.) London: B. T. Batsford, 1896.

Arts and Crafts Exhibition Society, *London*.**740.8 4**

¹²⁵¹⁷ Arts and crafts essays. By members of the Arts and Crafts Exhibition Society, with a preface by William Morris. xvii,420 p. 6 il. O. New York: C. Scribner's Sons, 1893.

Ward, James.**740.9 W21**

¹²⁵³⁸ Historic ornament. Treatise on decorative art and architectural ornament. . . . 2 vol. il. pl. O. London: Chapman & Hall, 1897.

Appleton's cyclopædia of technical drawing.**L744 A649**

¹⁷⁰⁹ Appleton's cyclopedia of technical drawing. Embracing the principles of construction as applied to practical design. . . . Edited by W. E. Worthen. vii,[2],745,38 p. il. 15 pl. 5 maps. Q. New York: D. Appleton & Co., 1886.

MacCord, Charles William.**L744 M13**

³¹⁰⁶ Practical hints for draughtsmen. Third edition. . . . [6],100 p. 68 il. sq. F. New York: J. W. Wiley & Sons, 1895.
Bound with: MacCord, C. W. Mechanical drawing. 1892.

- MacCord, Charles William.** L744 M13
³¹⁰⁵ Mechanical drawing. Progressive exercises and practical hints. For the use of all who wish to acquire the art, with or without the aid of an instructor. [6], 148 p. 164 il. sq. F. New York: J. Wiley & Sons, 1892.
 Bound with this: MacCord, C. W. Practical hints for draughtsmen. 1895.
- Dillmont, Thérèse de.** 746 D58
⁶²¹⁴ Encyclopedia of needlework. English edition. [4], 578 p. 890 il. O. [18--].
- Lefébure, Ernest.** 746 L52
⁵⁴⁰⁸ Embroidery and lace: their manufacture and history from the remotest antiquity to the present day. Translated and enlarged, with notes, by Alan S. Cole. x, 326 p. 154 il. O. London: H. Grevel & Co., 1888.
- Müntz, Eugène.** 746 M92
²⁵⁴ A short history of tapestry. From the earliest times to the end of the 18th century. Translated by Miss Louisa J. Davis. xvi, 399 p. 94 il. D. [Fine-art library.] London: Cassell & Co., 1885.
- Edis, Robert William.** 747 E23
¹²⁷⁵ Decoration & furniture of town houses. A series of Cantor lectures delivered before the Society of Arts, 1880, amplified and enlarged. xvi, 292 p. il. 29 pl. O. New York: Scribner & Wellford, 1881.
- Day, Lewis Foreman.** 748 D33
¹⁰⁶⁵⁸ Windows. A book about stained & painted glass. x, 415 p. il. O. London: B. T. Batsford, 1897.
- Holiday, Henry.** L748 H71
⁶⁹¹⁵ Stained glass as an art. xx, 173 p. il. 21 pl. Q. London: Macmillan & Co., 1896.
- Eastlake, Charles Lock, *Architect*.** 749 E13
⁵⁹⁵ Hints on household taste in furniture, upholstery and other details. Third edition (revised). xviii, 306 p. il. 32 pl. O. London: Longmans, Green, & Co., 1872.
- Pollen, John Hungerford, *M.A. 1820-*.** 749 P76
¹⁰⁵ Ancient and modern furniture and woodwork. vii, 143 p. 62 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1875.

750-760 PAINTING AND ENGRAVING

Champlin, John Denison, Jr., **L750.3 C35**
¹⁰⁴¹ & **Perkins, Charles C.,** *editors.*

Cyclopedia of painters and painting. 4 vol. il. pl. por. sq. Q.
 New York: C. Scribner's Sons, 1886-1887.

Large paper edition, in 500 copies.

Bryan, Michael. **L750.92 B84**

¹⁸⁶³² Dictionary of painters and engravers, biographical and critical.
 New edition, revised and enlarged, edited by Robert Edmund
 Graves. 2 vol. Q. London: G. Bell & Sons, 1886-1895.

Vol. 2 edited by Robert Edmund Graves and Walter Armstrong.

Hodson, James Shirley. **760.2 H66**

¹⁰¹¹ An historical and practical guide to art illustration, in connection
 with books, periodicals, and general decoration. . . . [8], 224
 p. il. 18 pl. 3 por. 1 pl. of por. 1 map, 1 table. O. London:
 Sampson Low, . . . , & Rivington, 1884.

Ruskin, John. **760.4 R89**

⁶⁷⁵⁸ Ariadne Florentina. Six lectures on wood and metal engraving,
 with appendix, given before the University of Oxford . . . , 1872.
 With an introduction by Charles Eliot Norton. Brantwood edi-
 tion. xviii, 298 p. 16 pl. 1 table. D. New York: C. E. Merrill
 & Co., 1892.

Slater, John Herbert. **760.92 S631**

¹⁷⁴⁸⁴ Engravings and their value: a guide for the print collector.
 Second edition. Revised and enlarged. [6], 572, [4] p. D.
 London: L. U. Gill, 1897.

"A dictionary of engravers and their works. Being an alphabetical list of the prin-
 cipal engravers, with the prices realised at auction for a selection of their works,"
 p. 95-572.

770 PHOTOGRAPHY

Abney, William de Wiveleslie. **770.2 A153**

¹²⁹⁶² A treatise on photography. Ninth edition. xvi, 374 p. 116 il.
 D. [Text-books of science.] London: Longmans, Green, &
 Co., 1897.

Brothers, Alfred. **770.2 B79**

¹⁹⁶²⁰ Photography: its history, processes, apparatus, and materials.
 Comprising working details of all the more important methods.
 xiii, 364 p. 122 il. 24 pl. O. London: C. Griffin & Co., 1892.

- Burton, William Kinninmond, & Pringle, Andrew.** 770.2 B95
¹⁵⁵⁹ The processes of pure photography. 200,ix p. 27 il. O. New York: Scovill & Adams Co., 1889.
- Marion & Co., London.** 770.2 M33
¹⁷⁶⁵¹ Practical guide to photography. Sixth edition ... revised and enlarged. viii,288 p. 50 il. D. London 1898.
- Wall, E. J.** 770.3 W15
⁹¹⁹⁵ The dictionary of photography for the amateur and professional photographer. Revised and brought up to date by Thos. Bolas. Seventh edition, enlarged. iv,632 p. 122 il. D. London: Hazell, Watson, & Viney, 1897.
- Wilson, Edward Livingstone.** 770.3 W69
⁶²⁵¹ Wilson's cyclopædic photography. A complete hand-book of the terms, processes, formulæ and appliances available in photography, arranged in cyclopædic form for ready reference. 453 p. 247 il. sq.O. London: Dawbarn & Ward, c. 1894.
- American annual.** 770.51 I
⁵⁴⁹⁶ The American annual of photography and Photographic times almanac. Continued from [vol. 2]. 1888. il. pl. O. New York c. 1887-.
 Vol. 2-5 edited by C. W. Canfield; vol. 7-8, by W. I. Lincoln Adams; vol. 10-, by Walter E. Woodbury.
- Yearbook.** 770.52 2
⁵⁵³⁰ The Yearbook of photography and amateur's guide. [Vol. 30.] 1889. Continued from [vol. 38]. 1897. il. pl. D. London [1888-].
 1889 edited by Thomas Bolas; 1897-, by E. J. Wall.
 1889 published under the title: The Yearbook of photography and photographic news almanac.
- Watts, W. A.** 770.8 4
¹⁵⁰⁷⁶ The photographic reference book. Hints, information, and methods concerning all kinds of photographic work and recreation. Compiled by W. A. Watts, under the direction of Henry Sturmev. 300 p. il. O. London: Iliffe & Son, [1896].
- Werge, John.** 770.9 W49
¹⁷⁶⁵⁷ The evolution of photography. With a chronological record of discoveries, inventions, etc., contributions to photographic literature, and personal reminiscences extending over forty years. viii,312 p. 4 pl. of por. D. London: Piper & Carter, 1890

Meldola, Raphael.

771.1 M48

¹⁴³⁹² The chemistry of photography. xiv,[2],382 p. 14 il. D. (Nature series.) London: Macmillan & Co., 1891.

Andrews, John.

778.22 A567

¹⁷⁶⁰⁸ Studies in photography. xiii,202 p. il. 6 pl. D. London: Hazzell, Watson, & Viney, pref., 1892.

Pringle, Andrew.

778.2578 P93

¹⁵⁰⁹⁵ Practical photo-micrography: by the latest methods. 183,ix p. 42 il. 7 pl. O. [Scovill's photographic series.] New York: Scovill & Adams Co., 1890.

780 MUSIC

Champlin, John Denison, Jr.,

L780.3 C35

⁸⁸³ & **Apthorp, William Foster**, *editors*.

Cyclopedia of music and musicians. 3 vol. il. por. table. Q. New York: C. Scribner's Sons, 1888-1890.

Special edition, with etchings, in 50 copies.

Grove, Sir George, *editor*.

780.3 G91

¹⁵⁷ A dictionary of music and musicians (A. D. 1450-1889) by eminent writers, English and foreign. With appendix, edited by J. A. Fuller Maitland, and index by Mrs. Edmond Wodehouse. 4 vol. and index. il. O. London: Macmillan & Co., 1890-94.

Riemann, Hugo.

780.3 R44

⁴³¹⁶ Dictionary of music. New edition, with many additions by the author. Translated by J. S. Shedlock. [2],895 p. il. O. London: Augener & Co., [1893].

Parry, Charles Hubert Hastings.

780.9 P24

¹⁷⁷²⁵ The evolution of the art of music. x,342 p. D. (International scientific series, vol. 76.) New York: D. Appleton & Co., 1896.

Wallaschek, Richard.

780.91 W15

¹¹⁵²³ Primitive music. An inquiry into the origin and development of music, songs, instruments, dances, and pantomimes of savage races. With musical examples. xi,326 p. 9 p. of music. O. London: Longmans, Green, & Co., 1893.

"Authorities quoted", p. 297-321.

Brown, James Duff, & Stratton, Stephen S.

780.92 B81

¹³⁵⁸⁷ British musical biography: a dictionary of musical artists, authors and composers, born in Britain and its colonies. [4],ii,[2],462, [2] p. O. Birmingham: S. S. Stratton, 1897.

Paine, John Knowles, Thomas, Theodore, & L780.92 P16
 12350 Klauser, Karl, *editors.*

Famous composers and their works. 4 vol. paged continuously; vol. 1: xii, 1-242 p.; vol. 2: [4], 243-496 p.; vol. 3: [4], 497-732 p.; vol. 4: [4], 733-976 p. il. pl. por. Q. Boston: J. B. Millet Co., c. 1891.

Thomas, Theodore, *editor.* L780.92 P161

12351 Famous composers and their works. Musical compositions. 2 vol. paged continuously; vol. 1: viii, 1-240 p.; vol. 2: viii, 241-472 p. por. Q. Boston: J. B. Millet Co., c. 1891.

Published to accompany Paine, J. K., Thomas, T., & Klauser, K., *ed.* Famous composers and their works.

790 AMUSEMENTS

Hopkins, Albert Allis. L793 H77

7957 Magic, stage illusions and scientific diversions, including trick photography. With an introduction by Henry Ridgely Evans. xii, 556 p. 400 il. 1 pl. Q. New York: Munn & Co., 1897.

"Bibliography of natural magic and prestidigitation. Compiled, with notes, by Henry Ridgely Evans", p. 537-550.

800 LITERATURE

- Posnett, Hutcheson Macaulay.** 801 P84
⁶⁴⁰ Comparative literature. x,402 p. D. (International scientific series, vol. 54.) New York: D. Appleton & Co., 1886.
- Bartlett, John.** 808.8 B28
²³⁵ Familiar quotations: a collection of passages, phrases, and proverbs traced to their sources in ancient and modern literature. Ninth edition. xv,1158 p. O. Boston: Little, Brown, & Co., 1892.
- Belton, John Devoe.** 808.8 B41
⁷⁵⁸ A literary manual of foreign quotations, ancient and modern, with illustrations from American and English authors and explanatory notes. vi,249 p. O. New York: G. P. Putnam's Sons, 1892.
- Duyckinck, Evert Augustus,** L810.92 D95
¹⁰⁹² & **Duyckinck, George L.**
 Cyclopædia of American literature; embracing personal and critical notices of authors, and selections from their writings, from the earliest period to the present day. 2 vol. il. por. Q. New York: C. Scribner, 1855-1856.
 Vol. 1 printed in 1856.
- Brooke, Stopford Augustus.** 820.9 B79
¹⁸⁰²³ English literature from the beginning to the Norman conquest. ix,338 p. D. New York: Macmillan Co., 1898.
 "Bibliography," p. 325-334.
- Saintsbury, George.** 820.9 S157
¹⁷¹⁴² A history of Elizabethan literature. [Second edition.] xiv, 471 p. D. [History of English literature.] London: Macmillan & Co., 1898.
- Saintsbury, George.** 820.9 S1571
¹⁷¹⁶⁸ A history of nineteenth century literature (1780-1895). xii, 477 p. D. [History of English literature.] London: Macmillan & Co., 1896.
- Taine, Hippolyte Adolphe.** 820.9 T13
¹²³⁵³ History of English literature. Translated from the French by H. Van Laun. [New edition.] 4 vol. O. Edinburgh: Edmonston & Douglas, 1873-1874.

Scherer, Wilhelm.

830.9 S326

¹⁶⁸⁷⁷ A history of German literature. Translated from the third German edition by Mrs. F. C. Conybeare. Edited by F. Max Müller. 2 vol. O. New York: C. Scribner's Sons, 1886.

Brunetière, Ferdinand.

840.9 B83

¹⁸⁰²⁴ Manual of the history of French literature. Authorized translation by Ralph Derechef. xxvii,[2],569 p. 16 por. O. New York: T. Y. Crowell & Co., c. 1898.

Kelly, James Fitzmaurice-.

860.9 K29

¹⁷¹⁹⁶ A history of Spanish literature. ix,423 p. D. New York: D. Appleton & Co., 1898.

"Bibliographical note", p. 399-412.

Teuffel, Wilhelm Sigmund.

870.9 T29

¹²⁸⁸ History of Roman literature. Revised and enlarged by Ludwig Schwabe. Authorized translation from the fifth German edition, by George C. W. Warr. 2 vol. O. London: G. Bell & Sons, 1891-1892.

Mure, William.

880.9 M94

¹⁷¹³¹ A critical history of the language and literature of antient Greece. Second edition. 5 vol. map. O. London: Longman, . . . , & Longmans, 1854-1859.

Vol. 5 is in first edition.

900 HISTORY AND GEOGRAPHY

901-909 HISTORY: GENERAL WORKS

Larned, Josephus Nelson.**L903 P300**

⁵⁶¹ History for ready reference from the best historians, biographers, and specialists. Their own words in a complete system of history 5 vol. maps, tables. Q. Springfield, Mass.: C. A. Nichols Co., 1895.

Bouillet, Marie Nicolas.**L903 P301**

¹⁷⁴⁰ Dictionnaire universel d'histoire et de géographie. Contenant: 1° l'histoire proprement dite: . . . ; 2° la biographie universelle: . . . ; 3° la mythologie: . . . ; 4° la géographie ancienne et moderne. . . . Refondu sous la direction de L.-G. Gourraigne. Trente-et-unième édition. x,2101 p. O. Paris: Librairie Hachette & C^{ie}, [1893].

Heilprin, Louis.**903 P302**

⁶⁷⁰⁰ The historical reference book. Comprising a chronological table of universal history, a chronological dictionary of universal history, a biographical dictionary. With geographical notes Fourth edition, with a supplement revised to 1893. xi,[2],574 p. O. New York: D. Appleton & Co., 1895.

Hinsdale, Burke Aaron.**907 P400**

⁶¹³⁹ How to study and teach history. With particular reference to the history of the United States. Revised edition, with additional matter, including a bibliographical index. xxiii,353 p. D. (International education series, vol. 25.) New York: D. Appleton & Co., 1894.

Mace, William Harrison.**907 P700**

⁸³²⁶ Method in history. For teachers and students. xvii,311 p. D. Boston, U. S. A.: Ginn & Co., 1897.

Contents: General nature of history. Organization of the periods of American history. The elementary phases of history teaching.

Freeman, Edward Augustus.**909 F87**

²⁹¹⁷ General sketch of history. Adapted for American students. New edition, revised, xxxi,400 p. 16 maps. S. (Freeman's historical course for schools, vol. 1.) New York: H. Holt & Co., c. 1876.

Stokvis, A. M. H. J.**L909 S874**

¹⁷⁸³⁷ Manuel d'histoire, de généalogie et de chronologie de tous les états du globe, depuis les temps les plus reculés jusqu'à nos jours, 3 vol. tables. Q. Leide: E. J. Brill, 1888-1893.

Irving, Joseph.**909.8 A613**

²¹⁰² The annals of our time: a diurnal of events, social and political, home and foreign, from the accession of Queen Victoria, June 20, 1837, to the Peace of Versailles, February 28, 1871. ix,[6],1033, [1] p. O. London: Macmillan & Co., 1890.

——— From February 24, 1871, to the Jubilee, June 20, 1887. [6],987-1651,[1] p. O. London: Macmillan & Co., 1889.

For continuation see Fyfe, H. H. Annals of our time.

Fyfe, H. Hamilton.**909.8 A6131**

²¹⁰³ Annals of our time. A record of events, social and political, home and foreign, Vol. 3, parts 1-2. O. London: Macmillan & Co., 1891-1892.

Contents: Part 1. June 21, 1887, to January 1, 1891. Part 2. 1891.

For preceding volumes see Irving, J. Annals of our time.

910.1-910.9 GEOGRAPHY: GENERAL WORKS

Reclus, Elisée.**L910.2 0300**

⁵⁷⁹² The earth and its inhabitants. Europe. Edited by E. G. Ravenstein. 5 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1883.

Contents: Vol. 1. Greece, Turkey in Europe, Rumania, Servia, Montenegro, Italy, Spain, and Portugal. Vol. 2. France and Switzerland. Vol. 3. Austria-Hungary, Germany, Belgium, and the Netherlands. Vol. 4. The British Isles. Vol. 5. The north-east Atlantic, islands of the north Atlantic, Scandinavia, European islands of the Arctic Ocean, Russia in Europe.

Vol. 5 edited by E. G. Ravenstein and A. H. Keane.

Reclus, Elisée.**L910.2 0301**

⁵⁷⁹³ The earth and its inhabitants. Asia. Edited by E. G. Ravenstein and A. H. Keane. 4 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1884-1885.

Contents: Vol. 1. Asiatic Russia: Caucasia, Aralo-Caspian basin, Siberia. Vol. 2. East Asia: Chinese Empire, Corea, and Japan. Vol. 3. India and Indo-China. Vol. 4. South-western Asia.

Vol. 2-4 edited by A. H. Keane.

Reclus, Elisée.**L910.2 0302**

⁵⁷⁹⁴ The earth and its inhabitants. Africa. Edited by A. H. Keane. 4 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1886-1889.

Contents: Vol. 1. North-east Africa. Vol. 2. North-west Africa. Vol. 3. West Africa. Vol. 4. South and east Africa.

Reclus, Elisée.**L910.2 0303**

⁵⁷⁹⁵ The earth and its inhabitants. North America. Edited by A. H. Keane. 3 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1890-1893.

Contents: Vol. 1. British North America. Vol. 2. Mexico, Central America, West Indies. Vol. 3. The United States.

Reclus, Elisée.**L910.2 0304**

⁵⁷⁹⁶ The earth and its inhabitants. South America. Edited by A. H. Keane. 2 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1894-1895.

Contents: Vol. 1. The Andes regions. Vol. 2. Amazonia and La Plata.

Reclus, Elisée.**L910.2 0305**

⁵⁷⁹⁷ The earth and its inhabitants. Oceanica. Edited by A. H. Keane. vii, 512 p. 226 il. 38 pl. 5 maps. Q. New York: D. Appleton & Co., 1890.

Annuaire.**L910.3 1**

¹²⁴²⁶ Annuaire international des transports, du commerce et de l'industrie. International directory of transports, commerce and industry. Internationales Jahrbuch für Transport, Handel und Industrie. Anuario internacional de los transportes, del comercio y de la industria. (1897.) [6], 4352 p. Index. lxiii, xi, 220, xi, 220, xi, 248, xi, 220 p. Q. Bruxelles: A. Michel & Co., [1897].

[Deschamps, Pierre.]**910.3 N001**

²¹²² Dictionnaire de géographie ancienne et moderne à l'usage du libraire et de l'amateur de livres, contenant: 1° Les noms anciens, grecs et latins, de la décadence latine et de la renaissance, ... , avec leur signification actuelle en langues vulgaires; 2° Les recherches ... sur les origines de la typographie dans toutes les villes, bourgs, abbayes d'Europe, jusqu'au XIX^e siècle exclusive-ment; 3° Un dictionnaire français-latin des noms de lieux, destiné à servir de table. Par Un Bibliophile. viii p. 796 col. O. Paris: Firmin Didot Frères, Fils & C^{ie}, 1870.

Published as supplement to Brunet, J. G. Manuel du libraire. Un Bibliophile is pseudonym for Pierre Deschamps.

Thomas, Joseph.

L910.3 P500

- ⁴⁴⁷ Lippincott's Gazetteer of the world. A complete pronouncing gazetteer or geographical dictionary of the world. . . . New revised edition, amplified by a series of statistical tables, . . . 2894 p. Q. Philadelphia: J. B. Lippincott Co., 1895.

Longmans, Green, & Co., publishers.

L910.3 P501

- ¹⁰¹⁷ Longmans' gazetteer of the world. Edited by George G. Chisholm. xii, 1788 p. Q. London: Longmans, Green, & Co., 1895.

Ritter, Karl.

L910.3 P502

- ²⁹⁷⁹ Ritters geographisch-statistisches Lexikon, Achte, . . . umgearbeitete, vermehrte . . . Auflage. Unter der Redaktion von Johs. Penzler. 2 vol. Q. Leipzig: O. Wigand, 1895.

Taylor, Isaac.

910.3 P503

- ³²⁷⁵ Names and their histories, alphabetically arranged as a handbook of historical geography and topographical nomenclature. v. [3], 392 p. D. London: Rivington, Percival & Co., 1896.

Strachey, Richard.

910.7 0800

- ¹⁹⁷⁹ Lectures on geography, delivered before the University of Cambridge during the Lent term, 1888. [4], 211 p. D. London: Macmillan & Co., 1888.

Nordenskiöld, Adolf Erik.

A910.9 0900

- ³⁴⁴ Facsimile-atlas to the early history of cartography, with reproductions of the most important maps printed in the xv and xvi centuries. Translated from the Swedish original by Johan Adolf Ekelöf and Clements R. Markham. [2], iv, [4], 141 p. 84 il. 51 maps. F. Stockholm 1889.

Beazley, Charles Raymond.

910.9 P700

- ⁷⁵³⁰ The dawn of modern geography. A history of exploration and geographical science, from the conversion of the Roman Empire to A. D. 900, with an account of the achievements and writings of the early Christian, Arab and Chinese travellers and students. xvi, 538 p. 13 pl. 10 maps. O. London: J. Murray, 1897.

"Additional note. I. On the manuscripts of the principal texts. II. On the editions of the principal texts", p. 517-530.

Greely, Adolphus Washington.

910.92 G81

- ¹²³⁹² Explorers and travellers. 373 p. il. 3 pl. 4 por. O. (Men of achievement.) New York: C. Scribner's Sons, 1893.

Winsor, Justin.

910.9218 W73

¹⁷¹⁵⁶ Christopher Columbus and how he received and imparted the spirit of discovery. xi, 674 p. il. O. Boston: Houghton, Mifflin & Co., 1891.

"The geographical results", p. 529-660.

Bunbury, Edward Herbert.

910.93 N900

³⁴³² A history of ancient geography among the Greeks and Romans from the earliest ages till the fall of the Roman Empire. Second edition. 2 vol. maps. O. London: J. Murray, 1883.

911-912 ATLASES AND MAPS

Spruner [von Merz], Karl.

Ag11 L500

²²⁰³ Hand-Atlas zur Geschichte Asiens, Afrika's, Amerika's und Australiens. Zweite Auflage. [6], 12 p. 18 maps. sq. F⁴. Gotha: J. Perthes, 1855.

Spruner [von Merz], Karl.

Ag11 N100

²²⁰² Spruner-Menke Hand-Atlas für die Geschichte des Mittelalters und der neueren Zeit. Dritte Auflage von Dr. K. v. Spruners Hand-Atlas, neu bearbeitet von Dr. Th. Menke. [6], 42 p. 90 maps. sq. F⁴. Gotha: J. Perthes, 1880.

Freeman, Edward Augustus.

911 0001

³⁵⁵³ The historical geography of Europe. Second edition. 2 vol. maps. O. London: Longmans, Green & Co., 1882.

Vol. 1: Text; vol. 2: Maps.

Droysen, Gustav.

Ag11 0500

³¹⁸⁵ Professor G. Droysens allgemeiner historischer Handatlas ... mit erläuterndem Text. Ausgeführt von der geographischen Anstalt von Velhagen und Klasing in Leipzig, unter Leitung von Dr. Richard Andree. [4], 92 p. 88 p. of maps. F⁵. Bielefeld: Velhagen & Klasing, 1886.

Labberton, Robert Henlopen.

L911 0600

³⁵⁴⁰ New historical atlas and general history. xvi, 213 p. 71 maps. Q. London: Macmillan & Co., 1890.

Smith, William, LL.D., & Grove, Sir George, editors. **Ag11.3 N400**

⁷²⁶⁴ Dr. William Smith's ancient atlas. An atlas of ancient geography, biblical & classical. To illustrate the Dictionary of the Bible and the classical dictionaries. The biblical maps from recent surveys, and the classical maps drawn by Dr. Charles Müller. [6], 26 p. 43 maps. F⁶. London: J. Murray, 1874.

- Kiepert, Heinrich.** L911.3 P200
³¹⁷⁷ Atlas antiquus. Twelve maps of the ancient world for schools and colleges. Eleventh edition, revised and enlarged. [4], 27 p. 12 maps. F⁴. (Students' series.) Boston: Leach, Shewell, & Sanborn, c. 1892.
- Mac Coun, Townsend.** 911.73 P200
²⁹¹⁶ An historical geography of the United States. Revised edition. vi, [2], 48 p. 23 pl. of maps. sq. D. New York: Silver, Burdett & Co. 1892.
- Chisholm, George Goudie, & Leete, C. H., editors.** L912 O900
²⁶⁸⁸ Longmans' new atlas, political and physical Engraved by Edward Stanford iv, 31 p. 50 maps. Q. New York: Longmans, Green, & Co., 1892.
- Bartholomew, John [George].** L912 O901
³⁵⁷⁷ The library reference atlas of the world. With general index to 100,000 places. [6], 209 p. 84 maps. F⁴. London: Macmillan & Co., 1890.
- Bartholomew, John George.** L912 O902
³⁸⁷⁴ Atlas of commercial geography, illustrating the general facts of physical, political, economic, and statistical geography, on which international commerce depends. With introductory notes by Hugh Robert Mill. vii, [1] p. 25 maps. sq. F. Cambridge: University Press, 1889.
- Stieler, Adolph.** L912 P100
³¹⁸⁷ Adolph Stieler's Handatlas über alle Theile der Erde und über das Weltgebäude. [7], 201 p. 95 maps. F⁴. Gotha: J. Perthes, [1891].
- Rand, McNally & Co., publishers.** A912 P200
⁸⁹⁴ Rand, McNally & Co.'s indexed atlas of the world, . . . with historical, descriptive, and statistical matter Accompanied by a new and original compilation forming a ready reference index, 581 p. maps, tables. F⁶. Chicago 1892.
- Appleton & Co., D., publishers.** L912 P201
³¹⁸⁶ The library atlas of modern geography: . . . , with a full gazetteer and indexes and . . . descriptive text based on the results of the latest censuses. [228], 109 p. il. 103 maps. F⁴. New York 1895.

Stanford, Edward, *publisher.*

A912 P300

- ⁴¹⁴⁸ Stanford's London atlas of universal geography, exhibiting the physical and political divisions of the various countries of the world. . . . Second edition, revised and enlarged. [10], 29 p. 100 maps. F⁶. London 1896.

Johnston, Alexander Keith.

A912 P400

- ⁴¹⁴⁵ The royal atlas of modern geography, exhibiting, . . . the present condition of geographical discovery and research . . . With additions and corrections to the present date by T. B. Johnston. With a special index to each map. A new edition. viii, [2] p. 57 maps. F⁶. Edinburgh: W. & A. K. Johnston, 1896.

Langhans, Paul.

L912 P700

- ¹¹⁶⁵⁸ Deutscher Kolonial-Atlas. Unpaged. 30 maps. F⁴. Gotha: J. Perthes, 1897.

Smith, Benjamin Eli, *editor.*

L912 P701

- ¹¹⁶⁹¹ The Century atlas of the world. Prepared under the superintendence of Benjamin E. Smith. [4], xxx, [2], 382 p. il. 117 maps. F. New York: Century Co., c. 1897.

Cram, George F., *publisher.*

A912 P800

- ¹⁰⁸⁰⁰ Cram's standard American railway system atlas of the world. Accompanied with a complete and simple index of the United States . . . 590, 39 p. il. F^o. Chicago: G. F. Cram, 1898.

U. S. A. *War Department.*

L912.7291 P701

- ¹¹⁷⁸⁹ *Adjutant General's Office. Military Information Division.*
Military map of the island of Cuba. Prepared in the War Department, Adjutant General's Office, Military Information Division, from the latest official sources. 4 maps. sq. F. N. Y. J. Bien & Co., 1897.

U. S. A. *War Department.*

912.7295 P800

- ¹¹⁷⁹¹ *Adjutant General's Office. Military Information Division.*
Military map, island of Puerto Rico, 1898. 60.8x82 cm. sq. O. N. Y.: J. Bien & Co., [1898].

Bien & Co., Julius, *publishers.*

L912.914 P800

- ¹¹⁷⁹⁰ Map of Philippine Islands and adjacent seas. From material of the English and Batavian governments 1898. 109.5x63.5 cm. nar. Q. New York c. 1898.

913 ANTIQUITIES

Ely, Talfourd.**913 P001**

⁹⁰⁸² Manual of archæology. . . . xii,272 p. 113 il. 1 pl. O. New York: G. P. Putnam's Sons, 1890.

"Books recommended", at the beginning of each chapter.

920 BIOGRAPHY

Cates, William Leist Redwin.**L920.01 C28**

¹⁷¹ A dictionary of general biography. Third edition, . . . completed to the present time. viii,1484 p. O. London: Longmans, Green, & Co., 1881.

Chambers's biographical dictionary.**920.01 C35**

¹⁸³⁰⁰ Chambers's biographical dictionary. The great of all times and nations. Edited by David Patrick and Francis Hindes Groome. 1002 p. O. Philadelphia: J. B. Lippincott Co., 1898.

Gubernatis, Angelo de.**L920.01 G93**

⁸⁷²⁸ Dictionnaire international des écrivains du jour. 3 vol. Q. Florence: L. Niccolai, 1890-1891.

Vol. 1 published in 1891.

Hoefer, Ferdinand, *editor*.**920.01 H67**

¹⁹⁹⁰ Nouvelle biographie générale depuis les temps les plus reculés jusqu'à nos jours, avec les renseignements bibliographiques et l'indication des sources à consulter: publiée par MM. Firmin Didot Frères. 46 vol. in 23. O. Paris: Firmin Didot Frères, Fils & Cie, 1855-1885.

Vol. 1 published in 1862.

Men.**920.01 M52**

¹⁷³⁶ Men and women of the time. A dictionary of contemporaries. Fourteenth edition, revised and brought down to the present time by Victor G. Plarr. vii,[2],986 p. O. London: G. Routledge & Sons, 1895.

Michaud, [Joseph François, & Michaud, L. G.], *editors*. **L920.01 M58**

²⁰⁰⁰ Biographie universelle (Michaud) ancienne et moderne, . . . Nouvelle édition, . . . revue, . . . ; ouvrage rédigé par une société de gens de lettres et de savants. 45 vol. Q. Paris: Madame C. Desplaces, 1854-[1857].

Phillips, Lawrence Barnett.**920.01 P54**

- ¹⁷² The dictionary of biographical reference, containing over one hundred thousand names, together with a classed index of the biographical literature of Europe and America. New edition, revised, ... with supplement to date, by Frank Weitenkamp. xi,[2],1038 p. O. Philadelphia: Gebbie & Co., 1889.

Pratt, Alfred T. Camden, *editor*.**L920.01 P88**

- ¹⁶³⁴⁷ People of the period. Being a collection of the biographies of upwards of six thousand living celebrities. 2 vol. Q. London: N. Beeman, 1897-[1898].

Sanders, Lloyd Charles, *editor*.**920.01 S215**

- ⁴⁶¹ Celebrities of the century. Being a dictionary of men and women of the nineteenth century. vi,[2],1077 p. O. London: Cassell & Co., 1887.

Thomas, Joseph.**L920.01 T36**

- ⁴⁴⁸ Universal pronouncing dictionary of biography and mythology. New edition, ... enlarged. [4],xii,2550 p. Q. Philadelphia: J. B. Lippincott Co., 1895.

Vapereau, Gustave.**L920.01 V41**

- ¹⁰²⁰ Dictionnaire universel des contemporains, contenant toutes les personnes notables de la France et des pays étrangers, Sixième édition ... augmentée. [2],iii,[1],1629 p. Q. Paris: Librairie Hachette & C^{ie}, 1893.

——— Supplément [4],103 p. Q. Paris: Librairie Hachette & C^{ie}, 1895.

Bound together.

Vapereau, Gustave.**L920.01 V411**

- ¹⁷⁹⁵⁴ Dictionnaire universel des littératures. Contenant, I, des notices sur les écrivains de tous les temps et de tous les pays ... ; II, la théorie et l'histoire des différents genres de poésie et de prose, III, la bibliographie générale et particulière, Seconde édition, revue et augmentée d'un supplément. xvi,2096,25 p. Q. Paris: Hachette & C^{ie}, 1884.

Who's who.**920.01 W62**

- ¹²⁴²³ Who's who? Continued from vol. 50. 1898. D. London 1898—.

Edited by Douglas Sladen.

Also called New issue, vol. 2—.

Smith, William, *LL.D.***920.03 S664**

- ⁵⁸⁰⁹ Dictionary of Greek and Roman biography and mythology. 3 vol. il. O. London: Taylor, Walton, & Maberly, 1849-1851.

Boase, Frederic.**L920.042 B63**

- ¹²⁵⁵¹ Modern English biography containing many thousand concise memoirs of persons who have died since the year 1850, with an index of the most interesting matter. Vol. 1-. Q. Truro: for the author, 1892-.

Only 250 copies printed.

Dictionary.**920.042 D56**

- ¹¹⁹⁹ Dictionary of national biography. Continued from vol. 1. O. New York: Macmillan & Co., 1885-.

Vol. 1-21 edited by Leslie Stephen; vol. 22-26, by Leslie Stephen and Sidney Lee; vol. 27-, by Sidney Lee.

Sharp, Robert Farquharson.**920.042 S531**

- ¹⁷¹¹³ A dictionary of English authors, biographical and bibliographical. Being a compendious account of the lives and writings of 700 British writers from the year 1400 to the present time. Second edition, with list of errata. vi,2,310 p. O. London: G. Redway, 1898.

Interleaved.

Munich. Königliche Akademie der Wissenschaften.**920.043 M92**

- ¹⁹⁹¹ Allgemeine deutsche Biographie. Auf Veranlassung ... seiner Majestät des Königs von Bayern ... herausgegeben durch die Historische Commission bei der Königl. Akademie der Wissenschaften. Continued from vol. 1. O. Leipzig: Duncker & Humblot, 1875-.

Vol. 1- edited by R. von Liliencron and F. X. Wegele.

Glaeser, Ernest, *editor*.**L920.044 G45**

- ¹³²² Biographie nationale des contemporains, rédigée par une société de gens de lettres. 4,834 p. Q. Paris: Glaeser & Cie, 1878.

Brussels. Académie royale des sciences,**920.0493 B83**²³⁰⁹**des lettres et des beaux-arts.**

Biographie nationale, publiée par l'Académie royale des sciences, des lettres et des beaux-arts de Belgique. Vol. 1-. O. Bruxelles 1866-.

Appleton's cyclopædia.**L920.07 A649**

- ¹⁷⁷ Appleton's cyclopædia of American biography. Edited by James Grant Wilson and John Fiske. 6 vol. il. por. Q. New York: D. Appleton & Co., 1894.

Who's who in America.**920.07 W62**

- ¹⁷⁹⁰⁵ Who's who in America. A biographical dictionary of living men and women of the United States. 1899-1900. Edited by John W. Leonard. xxxii,822 p. O. Chicago: A. N. Marquis & Co., c. 1899.

Canadian men and women.

920.071 M82

¹⁵¹³⁹ The Canadian men and women of the time: a hand-book of Canadian biography. Edited by Henry James Morgan. First edition. xii,1117,[1] p. D. Toronto: W. Briggs, 1898.

National cyclopædia.

L920.073 N21

⁵¹⁴⁹ The National cyclopædia of American biography. Being the history of the United States as illustrated in the lives of the founders, builders, and defenders of the Republic, and of the men and women who are doing the work and moulding the thought of the present time. Edited by distinguished biographers, selected from each state, . . . Continued from vol. 1. il. por. Q. New York: J. T. White & Co., 1892-.

Vol. 1 was published in 1893.

Mackail, John William.

920.159 M19

¹⁷⁹²⁰ The life of William Morris. New impression. 2 vol. pl. por. O. London: Longmans, Green & Co., 1899.

Wilson, James Grant, *editor*.

923.173 W69

¹²²³⁹ The presidents of the United States. 1789-1894. By John Fiske, . . . , and others. xii,526 p. il. 23 por. 23 facsim. O. New York: D. Appleton & Co., 1894.

Reprinted from *Appleton's cyclopædia of American biography*.

929 GENEALOGY AND HERALDRY

Burke, Sir [John] Bernard.

L929.72 B91

¹⁰²⁶⁷ A genealogical and heraldic dictionary of the peerage and baronetage, together with memoirs of the privy councillors and knights. By Sir Bernard Burke. Edited by his son [Henry Farnham Burke]. Sixtieth edition. [2],cxxxiii,1838,[2] p. il. Q. London: Harrison & Sons, 1898.

Hulme, Frederic Edward.

929.9 H87

¹²⁴³⁰ The flags of the world: their history, blazonry, and associations. From the banner of the crusader to the burgee of the yachtsman; flags national, colonial, personal; the ensigns of mighty empires; the symbols of lost causes. v,152 p. 26 pl. D. London: F. Warne & Co., [1897].

930 ANCIENT HISTORY

- Maspéro, Gaston.** 932 O700
¹²¹⁶ Egyptian archæology. Translated from the French by Amelia B. Edwards. Second edition, revised. . . . xx,373 p. 299 il. O. London: H. Grevel & Co., 1889.
- Petrie, William Matthew Flinders.** 932 P600
¹⁶⁵⁵⁴ A history of Egypt. . . . [Vol. 1-.] il. D. London: Methuen & Co., 1897-.
 Various editions.
 Vol. 1 published in 1899.
- Maspéro, Gaston.** L932 P700
¹⁴³⁹⁴ The dawn of civilization. Egypt and Chaldæa. Edited by A. H. Sayce. Translated by M. L. McClure. Third edition revised, and brought up to date by the author. xiv,800 p. il. 3 pl. 1 map. Q. New York: D. Appleton & Co., 1897.
- Smith, William, LL. D., Wayte, William, & Marindin, G. E.** 937 P001
³³⁹⁶ A dictionary of Greek and Roman antiquities. Third edition, . . . enlarged. 2 vol. il. O. London: J. Murray, 1890-1891.
- Grote, George.** 938 K600
¹³⁹⁹⁴ A history of Greece; from the earliest period to the close of the generation contemporary with Alexander the Great. A new edition. 10 vol. por. maps. D. London: J. Murray, 1888.
- Tsountas, Chrestos, & Manatt, J. Irving.** 938 P700
¹⁷⁷⁵⁹ The Mycenaean age. A study of the monuments and culture of pre-Homeric Greece. With an introduction by Dr. Dörpfeld. xxxi,417 p. 169 il. 18 pl. 4 maps. O. Boston: Houghton, Mifflin & Co., 1897.

940-990 HISTORY & GEOGRAPHY OF SPECIAL COUNTRIES

940 EUROPE

- Chisholm, George Goudie.** 940 P900
²⁰⁷¹³ Europe. Vol. 1. The countries of the mainland (excluding the north-west). (New issue.) xx,736 p. il. 2 pl. 30 maps. D. (Stanford's compendium of geography and travel.) London: E. Stanford, 1899.

Fyffe, Charles Alan.**940.9 0001**

⁵¹²⁴ A history of modern Europe. . . . 3 vol. maps. O. New York: H. Holt & Co., 1890-1891, pref. 1883-1886.

Vol. 1 in second edition, revised, published in 1891, pref. 1883.

Andrews, Charles McLean.**940.9 P600**

¹⁴⁶⁵⁰ The historical development of modern Europe from the Congress of Vienna to the present time. . . . 2 vol. maps, table. O. New York: G. P. Putnam's Sons, 1896-1898.

Green, John Richard.**942 N700**

⁸³² History of the English people. 4 vol. maps. O. New York: Harper & Brothers, 1878-1880.

Lucas, Charles Prestwood.**942 0800**

³²⁹⁰ A historical geography of the British colonies. Vol. 1-. maps, tables. D. Oxford: Clarendon Press, 1888-.

McCarthy, Justin.**942 P701**

⁸²³² A history of our own times. [Vol. 5.] From 1880 to the Diamond Jubilee. viii, 567 p. O. London: Chatto & Windus, 1897.

Low, Sidney James, & Pulling, F. S., editors.**942 P704**

¹⁰⁹⁵⁶ The dictionary of English history. Revised edition. vi, [2], viii, 1128 p. O. London: Cassell & Co., 1897.

Postoffice.**L942.51 1**

⁶⁴⁴⁸ The postoffice London directory for 1897, comprising . . . official, street, commercial, trades, law, court, parliamentary, postal, city and clerical, conveyance and banking directories. Vol. 98. xxxv, 3054 p. 1 map. Q. London: Kelly & Co., pref. 1896.

Menzel, Wolfgang.**943 M200**

¹⁵⁸⁴⁹ The history of Germany, from the earliest period to 1842. Translated from the fourth German edition by Mrs. George Horrocks. 3 vol. por. D. [Bohn's standard library.] London: G. Bell & Sons, 1890-1898.

Vol. 1 published in 1892.

Sybel, Heinrich von.**943 0900**

¹³⁹⁵⁸ The founding of the German Empire by William I. Based chiefly upon Prussian state documents. Translated by Marshall Livingston Perrin assisted by Gamaliel Bradford, Jr. 7 vol. por. O. New York: T. Y. Crowell & Co., c. 1890-1898.

Vol. 6-7 do not have the words: Based chiefly upon Prussian state documents, and are translated by Helene Schimmelfennig White.

Scherl, August, *publisher*.

L943.109 P700

- ⁸⁰⁵⁶ Adressbuch für Berlin und seine Vororte. 1897. Unter Benutzung amtlicher Quellen. Mit der Beigabe: Plan von Berlin und Umgebung. 2 vol. and supplement. sq.F. Map, separately bound. sq.Q. Berlin, pref. 1896.

Tuttle, Herbert.

943.171 O300

- ⁵¹³⁸ History of Prussia 4 vol. por. maps. O. Boston: Houghton, Mifflin & Co., 1888-1896.

Vol. 4 contains a biographical sketch of the author, by Herbert B. Adams, and a bibliography of his writings.

Vol. 1 published in 1892, c. 1883; vol. 2, in 1896, c. 1888.

Kitchin, George William.

944 N304

- ²⁹²¹ A history of France. Third edition, revised. 3 vol. maps, tables. D. (Clarendon Press series.) Oxford: Clarendon Press, 1892-1896.

Joanne, Paul, *editor*.

L944 P004

- ⁸³¹³ Dictionnaire géographique et administratif de la France et de ses colonies. . . . Vol. 1-. il. pl. maps F. Paris: Hachette & C^{ie}, 1890-.

Latimer, Elizabeth, [*born*] Wormeley.

944 P201

- ¹²⁶⁷⁶ France in the nineteenth century, 1830-1890. Sixth edition. 450 p. 22 por. O. Chicago: A. C. McClurg & Co., 1898, c. 1892.

Annuaire.

L944.65 1

- ⁶⁶³⁹ Annuaire-almanach du commerce, de l'industrie, de la magistrature et de l'administration, ou Almanach des 1,500,000 adresses de Paris, des départements, des colonies et des pays étrangers, Didot-Bottin. Première partie. Paris. Département de la Seine (cantons et communes). Edition du centenaire. . . . Various paging, 3140 p. maps. Q. Paris [1897].

Latimer, Elizabeth, [*born*] Wormeley.

945 P600

- ¹²⁶⁷⁴ Italy in the nineteenth century and the making of Austria-Hungary and Germany. Second edition. 436 p. 24 por. O. Chicago: A. C. McClurg & Co., 1897.

Latimer, Elizabeth, [*born*] Wormeley.

946 P700

- ¹²⁶⁷³ Spain in the nineteenth century. Third edition. 441 p. 23 por. O. Chicago: A. C. McClurg & Co., 1898.

Rimbaud, Alfred [Nicolas].

947 N900

²⁷³⁷ History of Russia, from the earliest times to 1882. . . . Translated by L. B. Lang. Edited and enlarged by Nathan Haskell Dole. Including, A history of the Turko-Russian war of 1877-78, . . . , by the editor. 3 vol. por. O. Boston: Estes & Lauriat, c. 1879-1882.

Morfill, William Richard.

947 0001

³³²⁹ Russia. vi,226 p. il. 5 pl. 2 maps. D. [Foreign countries and British colonies.] London: Sampson Low, . . . , & Rivington, 1880.

Latimer, Elizabeth, [born] Wormeley.

947 P300

¹²⁶⁴⁷ Russia and Turkey in the nineteenth century. Fourth edition. 413 p. 23 por. O. Chicago: A. C. McClurg & Co., 1897.

Woods, Francis Henry.

948 0200

³³³⁶ Sweden and Norway. x,[2],266 p. il. 7 pl. 1 por. 2 maps. D. [Foreign countries and British colonies.] London: Sampson Low, . . . , & Rivington, 1882.

Otté, Elise C.

948.9 0100

³³²⁴ Denmark and Iceland. vii,[1],267,[1] p. il. 12 pl. 2 maps. D. [Foreign countries and British Colonies.] London: Sampson Low, . . . , & Rivington, 1881.

Jebb, Richard Claverhouse.

949.5 0002

¹⁷¹³⁹ Modern Greece. Two lectures delivered before the Philosophical Institution of Edinburgh, with papers on 'The progress of Greece' and 'Byron in Greece.' vi,183 p. D. London: Macmillan & Co., 1880.

Laveleye, Emile de.

949.6 0700

²⁰³⁶ The Balkan peninsula. Translated by Mrs. Thorpe. Edited and revised for the English public by the author, with an introductory chapter upon the most recent events xxvi,384 p. 1 map. O. New York: G. P. Putnam's Sons, 1887.

950 ASIA

Keane, Augustus Henry.

950 P600

⁴³³³ Asia. . . . (New issue.) 2 vol. il. pl. maps. D. (Stanford's compendium of geography and travel.) London: E. Stanford, 1896.

Colquhoun, Archibald Ross.

951 P800

- ¹⁷⁹⁹⁰ China in transformation. ix,[1],396,[2] p. il. 1 pl. 1 map, 3 maps in pocket. O. New York: Harper & Brothers, 1899.
 "List of books consulted", p. 386-388.

James, Henry Evan Murchison.

951.54 O700

- ³⁵⁶⁷ The Long White Mountain; or, A journey in Manchuria, with some account of the history, people, administration and religion of that country. xxi,[3],502 p. il. 10 pl. 1 map. O. London: Longmans, Green & Co., 1888.

Griffis, William Elliot.

952 P001

- ⁷⁸⁷⁸ The Mikado's empire. Book I. History of Japan, from 660 B. C. to 1872 A. D. Book II. Personal experiences, observations, and studies in Japan, 1870-1874. Sixth edition, with supplementary chapters: Japan in 1883, 1886, and 1890. 661 p. il. 1 pl. 1 map. O. New York: Harper & Brothers, c. 1890.

Hunter, Sir William Wilson.

954 P200

- ³⁴²⁴ The Indian Empire. Its peoples, history, and products. New and revised edition (the third). 852 p. 1 map. O. London: Smith, Elder, & Co., pref. 1892.

Knight, Edward Frederick.

954 P300

- ³²⁹³ Where three empires meet: a narrative of recent travel in Kashmir, western Tibet, Gilgit, and the adjoining countries. xvi,495 p. 27 il. 27 pl. 1 map. O. London: Longmans, Green, & Co., 1893.

960 AFRICA

Keane, Augustus Henry.

960 P400

- ⁴³³² Africa. . . . (New issue.) 2 vol. il. pl. maps. D. (Stanford's compendium of geography and travel.) London: E. Stanford, 1895.

Schweinfurth, Georg.

966 N100

- ²⁰⁴⁵ The heart of Africa. Three years' travels and adventures in the unexplored regions of Central Africa, from 1868 to 1871. Translated by Ellen E. Frewer. With an introduction by Winwood Reade. 2 vol. il. pl. maps. O. New York: Harper & Brothers, 1874.

Stanley, Henry Morton.

967 P001

³³⁵⁰ In darkest Africa, or The quest, rescue, and retreat of Emin, Governor of Equatoria. 2 vol. il. pl. por. maps, maps in pockets. O. New York: C. Scribner's Sons, 1890.

Bryce, James.

968 P800

¹²⁰⁵⁷ Impressions of South Africa. xxiv,[2],499 p. 3 maps. O. New York: Century Co., 1898.

970-970.9 NORTH AMERICA: GENERAL WORKS

Winsor, Justin, *editor*.

L970 O900

³⁸² Narrative and critical history of America. 8 vol. il. pl. por. maps. Q. Boston: Houghton, Mifflin, & Co., 1884-1889.

Vol. 1 printed in 1889. Vol. 2 copyrighted in 1886.

Contents: Vol. 1. Aboriginal America. Vol. 2. Spanish explorations and settlements in America from the fifteenth to the seventeenth century. Vol. 3. English explorations and settlements in North America, 1497-1689. Vol. 4. French explorations and settlements in North America and those of the Portuguese, Dutch, and Swedes, 1500-1700. Vol. 5. The English and French in North America, 1689-1763. Vol. 6-7. The United States of North America. Part 1-2. Vol. 8. The later history of British, Spanish, and Portuguese America.

Parkman, Francis.

970 P701

⁸¹⁸⁶ Works. Champlain edition. 20 vol. pl. por. facsim. maps. O. Boston: Little, Brown, & Co., 1897-1898.

Fiske, J. Introductory essay, [biographical sketch of Parkman], vol. 1, p. xi-lxxxvi.

Maclean, John.

970.1 P601

⁹⁶⁰³ Canadian savage folk. The native tribes of Canada. 641 p. il. 1 por. O. Toronto: W. Briggs, 1896.

Jackson, Helen [*born Fiske, formerly Hunt*].

970.5 O500

¹⁰²³⁸ A century of dishonor. A sketch of the United States Government's dealings with some of the Indian tribes. New edition enlarged by the addition of the report of the needs of the Mission Indians of California. x,514 p. D. Boston: Roberts Brothers, 1895, c. 1885.

971 CANADA

Osgood & Co., James R., *publisher.***971 N500**

¹²⁶⁷⁹ The maritime provinces: a handbook for travellers. A guide to the chief cities, coasts, and islands of the maritime provinces of Canada, and to their scenery and historic attractions; with the Gulf and River of St. Lawrence to Quebec and Montreal; also, Newfoundland and the Labrador coast. Second edition, revised and enlarged. ix,[1],336 p. 1 pl. of maps, 7 maps. S. Boston 1880, c. 1875.

Lovell & Son, John, *publishers.***971 P500**

²⁹⁴⁴ Lovell's gazetteer of British North America: 671 p. O. Montreal 1895.

Dawson, Samuel Edward.**971 P700**

⁹³¹⁵ North America. Vol. 1. Canada & Newfoundland. xxiv,719 p. il. 1 pl. 12 maps. D. (Stanford's compendium of geography and travel. New issue.) London: E. Stanford, 1897.

972 MEXICO. CENTRAL AMERICA. WEST INDIES

Romero, Matias.**L972 P800**

¹²³⁴⁵ Coffee and india-rubber culture in Mexico. Preceded by Geographical and statistical notes on Mexico. xxvi,[2],417 p. 1 pl. 1 map, 1 table. Q. New York: G. P. Putnam's Sons, 1898.
Geographical and statistical notes on Mexico, p. 1-280.

Romero, Matias.**L972 P801**

¹³⁶⁵⁹ Mexico and the United States. A study of subjects affecting their political, commercial, and social relations, made with a view to their promotion. Vol. 1-. pl. facsim. maps. Q. New York: G. P. Putnam's Sons, 1898-.

Contents: Geographical and statistical notes on Mexico. The valley of Mexico's drainage. Historical notes on Mexico. The Anglo-Saxon and Roman systems of criminal jurisprudence. The Mexican free zone. Labor and wages in Mexico. The silver standard in Mexico. The Pan-American Conference of 1889. Supplement to the free zone paper. List of President's messages sent to Congress during the period of French intervention, from 1861 to 1867. Prepared by Mr. Clifford Warren.

The Geographical and statistical notes were previously published as introduction to Coffee and india-rubber in Mexico, by the same author.

Perry, G. R., *editor*.

972.83 I

¹⁵⁶⁵⁶ Directorio nacional de Honduras, América Central. . . . 502 p. il. 1 map. O. New York, U. S. A.: Spanish-American Directories Co., 1899.

Has also English title-page.

Colquhoun, Archibald Ross.

972.85 P500

⁷⁶⁵ The key of the Pacific: the Nicaragua Canal. xvii,443 p. 60 il. 12 pl. 6 maps. O. New York: Longmans, Green, & Co., 1895.

Eden, Charles Henry.

972.9 N900

³³²³ The West Indies. viii,239 p. il. 8 pl. 1 map. D. [Foreign countries and British Colonies.] London: Sampson Low, . . . , & Rivington, 1880.

Froude, James Anthony.

972.9 O700

¹¹³²⁹ The English in the West Indies; or, The bow of Ulysses. x,[2], 373 p. 8 pl. D. New York: C. Scribner's Sons, 1897, pref. 1887.

Hill, Robert Thomas.

972.9 P800

¹⁵⁴⁰⁰ Cuba and Porto Rico, with the other islands of the West Indies. Their topography, climate, flora, products, industries, cities, people, political conditions, etc. xxviii,429 p. 77 pl. 2 maps. O. New York: Century Co., 1898.

Davey, Richard.

972.9I P801

¹⁴⁷¹⁴ Cuba past and present. vi,284 p. 3 pl. 1 por. 1 map. O. New York: C. Scribner's Sons, 1898.

"The boyhood of Columbus", p. 237-256.

Hearn, Lafcadio.

972.98 O900

¹⁷¹⁷⁸ Two years in the French West Indies. 431 p. il. 37 pl. D. New York: Harper & Brothers, 1890.

973-979 UNITED STATES OF AMERICA

McMaster, John Bach.

973 O300

¹³⁹⁶³ A history of the people of the United States, from the Revolution to the Civil War. Vol. 1-. O. New York: D. Appleton & Co., 1897-, c. 1883-.

Baedeker, Karl.

973 P300

²⁰⁴⁹ The United States, with an excursion into Mexico. Handbook for travellers. c,516 p. 1 pl. 35 maps. S. Leipsic: K. Baedeker, 1893.

Schouler, James.**973 P401**

- ¹³⁹⁶⁴ History of the United States of America under the constitution. Revised edition. . . . Vol. 1-. maps. O. New York: Dodd, Mead & Co., c. 1894-.

Jameson, John Franklin.**L973 P500**

- ²⁷⁶ Dictionary of United States history. 1492-1895. Four centuries of history. Written concisely and arranged alphabetically in dictionary form. [2], 733 p. 1 pl. 22 pl. of por. 1 facsim. Q. Boston, Mass.: Puritan Publishing Co., c. 1894.

Gannett, Henry.**973 P800**

- ¹⁵⁰⁵³ North America. Vol. II. The United States. xvi, 466 p. il. 1 pl. 16 maps. D. (Stanford's compendium of geography and travel. New issue.) London: E. Stanford, 1898.

Lodge, Henry Cabot.**973.2 O100**

- ²⁵³⁶ A short history of the English colonies in America. Revised edition. viii, 560 p. 1 map. O. New York: Harper & Brothers, c. 1881.

Doyle, John Andrew.**973.2 O201**

- ²⁵³³ English colonies in America. . . . 3 vol. maps. O. New York: H. Holt & Co., 1889, pref. 1882-1886.
Contents: Vol. 1. Virginia, Maryland, and the Carolinas; vol. 2-3. The Puritan colonies.

Winsor, Justin.**973.2 P500**

- ¹⁷²⁴² The Mississippi basin. The struggle in America between England and France, 1697-1763. ix, 484 p. il. O. Boston: Houghton, Mifflin & Co., 1895.

Winsor, Justin.**973.4 P700**

- ²⁰¹⁷⁸ The westward movement: the colonies and the republic west of the Alleghanies, 1763-1798. With full cartographical illustrations from contemporary sources. viii, 595 p. il. O. Boston: Houghton, Mifflin & Co., 1899.

Rhodes, James Ford.**973.6 P200**

- ¹⁵⁷⁶⁹ History of the United States from the compromise of 1850. . . . Vol. 1-. maps. O. New York: Harper & Brothers, 1896-.

Boston.**974.410 1**

- ⁴¹⁷⁸ The Boston directory, containing the city record, a directory of the citizens, business directory and street directory. No. 92, 95. 1896, 1899. por. maps. O. Boston: Sampson, Murdock & Co., c. 1896-1899.

Trow Directory, Printing & Bookbinding Co., *publishers*. L974.762 I

⁴²⁹⁰ Trow's general directory of the boroughs of Manhattan and Bronx, City of New York. . . . Vol. 91, 110, 113. 1877, 1896, 1899. maps. Q. New York, c. 1877-c. 1899.

Previous to 1899 published under the title: Trow's New York city directory.

Gopsill's Sons, James, *publishers*. 974.868 I

⁶⁰⁸⁴ Gopsill's Philadelphia city directory, for 1897. . . . 2271 p. O. Map. 76x105 cm. Philadelphia 1897.

Soards, L., *publisher*. 976.362 I

⁶⁰⁸³ Soards' New Orleans city directory, for 1897, vol. XXIV. . . . 1174 p. O. New Orleans [1897].

Polk & Co., R. L., *publishers*. 976.7 I

¹²⁵⁴⁶ Arkansas state gazetteer and business directory. 1898-9. . . . Vol. IV. 715 p. il. O. Detroit [1898].

Kentucky state gazetteer. 976.9 I

⁷⁵²⁴ Kentucky state gazetteer and business directory. 1896. . . . 1296 p. O. Detroit: R. L. Polk & Co., c. 1895.

Blanchard, Rufus. 977 N900

⁶⁸⁶ Discovery and conquests of the North-West, with the history of Chicago. 768 p. 3 pl. 7 maps. O. Wheaton: R. Blanchard & Co., 1881.

Hinsdale, Burke Aaron. 977 O800

¹⁰⁶⁵ The old Northwest. With a view of the thirteen colonies as constituted by the royal charters. vi,[2],440 p. il. 10 maps. O. New York: T. Mac Coun, 1888.

Thwaites, Reuben Gold. 977 P700

¹⁷⁸⁹³ Afloat on the Ohio. An historical pilgrimage of a thousand miles in a skiff, from Redstone to Cairo. xiv,334 p. D. Chicago: Way & Williams, 1897.

"Selected list of journals of previous travelers down the Ohio," p. 320-328.

Williams & Co., *publishers*. L977.1 I

⁷⁷⁹⁰ Williams' Ohio state directory 1896. 871,[1],95 p. Q. Cincinnati, c. 1895.

Cleveland Directory Publishing Co. 977.117 I

⁷⁵⁸⁵ The Cleveland directory for the year ending July, 1893, 1471 p. 1 map. O. Cleveland 1897.

Williams & Co., publishers.**977.117 5**

- ¹⁵¹⁷¹ Williams' Cincinnati directory ... , including Avondale, Clifton, Linwood, Riverside, and Westwood, No. 48. 1898. O. Cincinnati c. 1898.

Indiana state gazetteer.**977.2 1**

- ⁷⁵²² Indiana state gazetteer and business directory. Seventh edition. 1895. 1075 p. O. Indianapolis, Ind.: R. L. Polk & Co., [1896].

Illinois state gazetteer.**977.3 1**

- ⁷⁵²⁶ Illinois state gazetteer and business directory. 1864-5. O. Chicago: J. C. W. Bailey, 1864.
 ——— Vol. 3, 7-8. 1882, 1890-1893. O. Chicago: R. L. Polk & Co., c. 1882-1893.

Moses, John.**977.3 0700**

- ³⁴³⁸ Illinois, historical and statistical, comprising the essential facts of its planting and growth as a province, county territory, and state. 2 vol. paged continuously; vol. 1: 1-551 p.; vol. 2: 553-1316 p. il. pl. por. facsim. maps. O. Chicago 1889-1892.

Lakeside.**L977.316 2**

- ¹⁶⁵¹ The Lakeside annual directory of the city of Chicago. Embracing a complete general and business directory, miscellaneous information, and street guide. Continued from [vol. 1.] 1874. O. Chicago c. 1874-.

Vol. for 1876-1886 compiled by Thomas Hutchinson, 1887-, by Reuben H. Donnelly.

Vol. for 1874-1891 are in Q.

Chicago blue book.**977.316 3**

- ⁶⁴²⁸ The Chicago blue book of selected names of Chicago and suburban towns. Containing the names and addresses of prominent residents, Continued from [vol. 8]. 1897. D. Chicago, c. 1896-.

Andreas, Alfred Theodore.**L977.316 0400**

- ⁶⁵³⁰ History of Chicago. From the earliest period to the present time. 3 vol. pl. por. maps. sq. F. Chicago: A. T. Andreas Co., 1884-1886.

Moses, [John], & Kirkland, [Joseph], editors.**L977.316 P501**

- ²⁹⁷⁸ Aboriginal to metropolitan. History of Chicago, Illinois. 2 vol. il. pl. por. pl. of por. maps. Q. Chicago: Munsell & Co., 1895.

Michigan state gazetteer.**977.4 1**

- ⁷⁵²³ Michigan state gazetteer and business directory. 1897. 2311 p. 1 map. O. Detroit: R. L. Polk & Co., c. 1897.

- Polk & Co., R. L., *publishers.*** 977.422 I
⁶⁶⁹⁰ Detroit city directory [No. 60, 63.] 1896, 1899. maps. O.
 Detroit, c. 1896-c. 1899.
- Wisconsin state gazetteer.** 977.5 I
⁷⁵²⁵ Wisconsin state gazetteer and business directory. 1897-8. . . .
 1618 p. 1 map. O. Chicago: R. L. Polk & Co., c. 1897.
- Wright, Alfred G., *publisher.*** 977.557 I
⁶⁶⁶⁹ Wright's directory of Milwaukee . . . 1896, 1899. maps. O.
 Milwaukee 1896-1899.
- Polk & Co., R. L., *publishers.*** 977.677 I
⁶⁶⁸⁸ R. L. Polk & Co's St. Paul city directory . . . 1896, 1899.
 maps. O. St. Paul, c. 1896-c. 1899.
- Iowa state gazetteer.** 977.7 I
⁷⁵⁸⁶ Iowa state gazetteer and business directory. 1897. 1658 p. 1
 map. O. Des Moines: R. L. Polk & Co., c. 1897.
- Polk & Co., R. L., *publishers.*** 977.8 I
¹²³⁹⁵ Missouri state gazetteer and business directory. 1898-99. Twenty-
 third year. . . . Published biennially. 2132 p. O. St.
 Louis, Mo., c. 1898.
- Gould Directory Co., *publishers.*** 977.877 I
⁴¹⁷⁹ Gould's St. Louis directory Being a complete index of the
 residents of the entire city, and a classified business directory,
 No. 25, [28]. 1896, 1899. O. St. Louis 1896-1899.
- Roosevelt, Theodore.** 978.0900
²⁷³⁴ The winning of the West. 4 vol. maps. O. New York: G. P.
 Putnam's Sons, 1894-1896, c. 1889-1894.
 Contents: Vol. 1. From the Alleghanies to the Mississippi, 1769-1776. Vol. 2.
 1777-1783. Vol. 3. The founding of the trans-Alleghany commonwealths, 1784-1790.
 Vol. 4. Louisiana and the Northwest, 1791-1807.
- Chapin, Frederick Hastings.** 979 P200
¹²⁰⁴³ The land of the Cliff-Dwellers. [2], 188 p. 64 pl. 3 maps. D.
 Boston: W. B. Clarke & Co., 1892.
- Crocker Co., H. S., *publishers.*** 979.478 I
⁷⁵²⁷ Crocker-Langley San Francisco directory for year commencing
 April, 1897. . . . 2135 p. 1 map. O. San Francisco, c. 1897.
- Elliott, Henry Wood.** 979.80600
²⁵⁰⁹ Our Arctic province, Alaska, and the Seal Islands. xv, 473 p. il.
 49 pl. 3 maps. O. New York: C. Scribner's Sons, 1887.

980 SOUTH AMERICA

Bates, Henry Walter.**980 N800**

¹²⁵²⁷ Central America, the West Indies and South America. With ethnological appendix [Ethnography and philology of America] by A. H. Keane. Second and revised edition. xviii,[2],571 p. il. 20 pl. 13 maps. O. (Stanford's compendium of geography and travel.) London: E. Stanford, 1882.

Bureau of the American Republics.**L980 P700**

⁸⁵⁶³ Commercial directory of the American republics. . . . Vol. 1-. maps. sq.Q. Washington 1897-.

990-997 AUSTRALASIA. OCEANICA

Wallace, Alfred Russel.**990 P300**

⁴³³⁹ Australasia. . . . (New issue.) 2 vol. il. pl. maps. D. (Stanford's compendium of geography and travel.) London: E. Stanford, 1893-1894.

Contents: Vol. 1. Australia and New Zealand. Vol. 2. Malaysia and the Pacific archipelagoes.

Vol. 2 edited and greatly extended by F. H. H. Guillemard.

Stevens, Joseph Earle.**991.4 P800**

¹³⁸⁵⁰ Yesterdays in the Philippines. xx,232 p. 30 pl. 2 por. 1 map. D. New York: C. Scribner's Sons, 1898.

Worcester, Dean Conant.**991.4 P801**

¹³⁹⁵⁹ The Philippine Islands and their people. A record of personal observation and experience, with a short summary of the more important facts in the history of the archipelago. xix,529 p. il. 1 pl. 1 map. O. New York: Macmillan Co., 1898.

Foreman, John.**991.4 P900**

¹³⁹²⁴ The Philippine Islands. A political, geographical, ethnographical, social and commercial history of the Philippine archipelago and its political dependencies, embracing the whole period of Spanish rule. Second edition, revised and enlarged. xvi,653 p. 17 pl. 1 pl. of por. 2 por. 2 maps, 1 map in pocket. O. New York: C. Scribner's Sons, [printed in London], 1899.

Scidmore, Eliza Ruhamah.

992.2 P700

¹⁵⁷⁶³ Java the garden of the East. xiv,339 p. 2 il. 35 pl. paged in. 1 pl. D. New York: Century Co., 1898.

Romilly, Hugh Hastings.

993 O600

³²⁸⁹ The western Pacific and New Guinea: notes on the natives, Christian and cannibal, with some account of the old labour trade. Second edition. vi,[2],284 p. 1 map. D. London: J. Murray, 1887.

Guppy, Henry Brougham.

L993.5 O700

³⁴⁵⁶ The Solomon Islands and their natives. xvi,384 p. il. 9 pl. 1 map, 1 pl. of music Q. London: Swan Sonnenschein, Lowrey & Co., 1887.

Hutchinson's Australasian encyclopædia.

994 P200

³²⁷⁶ Hutchinson's Australasian encyclopædia. Comprising a description of all places in the Australasian colonies, an account of the events which have taken place in Australasia from its discovery to the present date, and the biographies of distinguished early colonists. By George Collins Levey. [4],437 p. 1 map. D. London: Hutchinson & Co., 1892.

Sutherland, Alexander, & Sutherland, George.

994 P400

³²⁸⁰ The history of Australia and New Zealand from 1606 to 1890. iv,[2],248 p. il. 1 por. D. London: Longmans, Green, & Co., 1894.

Churchward, William B.

996.1 O700

¹¹⁶⁹⁶ My consulate in Samoa. A record of four years' sojourn in the Navigators Islands, with personal experiences of King Malietoa Laupepa, his country, and his men. xii,[2],403 p. O. London: R. Bentley & Son, 1887.

[Bishop], Isabella L. [born] Bird.

996.9 N500

⁸⁵²³ The Hawaiian Archipelago. Six months among the palm groves, coral reefs, and volcanoes of the Sandwich Islands. Seventh edition. xv,[1],318 p. il. 1 pl. 1 map. D. New York: G. P. Putnam's Sons, 1894.

998 ARCTIC REGIONS

Greely, Adolphus Washington.

998 P500

²⁵⁰⁵ Handbook of Arctic discoveries. x,[2],257 p. il. 1 por. 10 maps. D. (Columbian knowledge series, no. 3.) Boston: Roberts Brothers, 1896.

Nansen, Fridtjof.

998 P601

- ⁷³⁰³ Fridtjof Nansen's "Farthest north." Being the record of a voyage of exploration of the ship *Fram*, 1893-96, and of a fifteen months' sleigh journey by Dr. Nansen and Lieut. Johansen. With an appendix by Otto Sverdrup, captain of the *Fram*. 2 vol. il. pl. por. maps. O. Westminster: A. Constable & Co., 1897.

Lachambre, Henri, & Machuron, Alexis.

998 P701

- ¹³⁷²¹ Andrée and his balloon. 305,[1] p. il. 1 pl. 1 por. D. Westminster: A. Constable & Co., 1898.

Prentiss, Henry Mellen.

998 P703

- ¹⁵⁵⁷⁶ The great polar current. Polar papers. De Long — Nansen — Peary. [6],153 p. D. New York: F. A. Stokes Co., c. 1897.

INDEX.

This index includes names of individual and corporate authors, of editors and translators, of authors of substantial introductions and special chapters. It includes also titles of anonymous works, of collective works, such as dictionaries, encyclopædias, etc., and striking titles, especially when they do not indicate the subject. A figure in parentheses, following the pagination, indicates the number of entries in which the name will be found on that page.

- "A. L. A." index, 10.
 "A. L. A." library, 17.
 Abbott, E. A., 82, 95.
 Abbott, T. K., 35.
 Abel, M. H., 178.
 Aber, M. R. A., 87.
 Abercromby, R., 131.
 Abney, W. de W., 203.
 Acton, E. A., 145.
 Acworth, W. M., 89.
 Adams, B. B., Jr., 182.
 Adams, C. F., Jr., 182 (2).
 Adams, C. K., 17, 21.
 Adams, L. S., 179.
 Adams, Sir F. O., 73.
 Adams, H. B., 222.
 Adams, H. C., 68 (2), 90.
 Adams, J. S., 172.
 Adams, W. D., 23 (2).
 Addams, J., 43, 59.
 Adeline, J., 194.
 Adler, F., 88.
 Adressbuch für Berlin, 222.
 Afloat on the Ohio, 229.
 Agassiz, A., 136.
 Agassiz, L., 149.
 Aikman, C. M., 177.
 Aitchison, G., 201.
 Alden, P., 44.
 Alexander, E. P., 182.
 Alger, A. M., 75.
 Allen, A. H., 123.
 Allen, C. D., 26.
 Allen, G., 134, 136, 144, 145, 146.
 Allen, J. A., 158.
 Allen, J. H., 101.
 Allen, O. D., 124.
 Alleyne, S. F., 37 (2).
 Allgemeine deutsche Biographie, 218.
 Allibone, S. A., 9 (2).
 American and English encyclopædia of law, 71 (2).
 American annual of photography, 204.
 American college and public school directory, 84.
 American cyclopædia, 20.
 American dictionary of printing and book-making, 180.
 American encyclopædia of commerce, 160.
 American Library Association, 10 (2), 11 (3), 17 (2).
 American Manual Training Association, 14.
 American mechanical dictionary, 160.
 American mining code, 172.
 American newspaper annual, 11.
 American Ornithologists' Union, 158.
 American Public Health Association, 178.
 American Public Health Exhibition, 165.
 American railway, 182.
 American supplement to the Encyclopædia Britannica, 20.
 Ames, A. F., 104.
 Ames, J. G., 13.
 Ames, J. S., 112.
 Amherst, M. T., 197.
 Amos, S., 71.
 Anderson, R. B., 40.
 Andree, R., 213.
 Andree, A., 213.
 Andrée and his balloon, 234.
 Andrews, C. M., 221.
 Andrews, E. B., 36.
 Andrews, J., 205.
 Angell, A. C., 74.
 Angot, A., 110.
 Annals of our time, 210 (2).
 Annandale, C., 23, 94.
 Annuaire-almanach... de Paris, 222.
 Annuaire international des transports, 211.
 Annual cyclopædia, 20.
 Annual literary index, 10.
 Anson, Sir W. R. Bart., 72.
 Anthony, Susan B., 52.
 Anvers, N. d', 137.
 Apgar, A. C., 147, 159.
 Appleton & Co., D., 214.
 Appleton's annual cyclopædia, 20.
 Appleton's cyclopædia of American biography, 218.
 Appleton's cyclopædia of applied mechanics, 161.
 Appleton's cyclopædia of technical drawing, 201.
 Apthorp, W. F., 205.
 Archibald, E. D., 131.
 Ariadne Florentina, 203.
 Aristoteles, 37.
 Arkansas state gazetteer, 229.
 Arlidge, J. T., 164.
 Armstrong, W., 196 (2), 199, 203.

- Arnold, Mrs. W., 69.
 Art and life, 195.
 Arthur, J. C., 145.
 Arts and crafts essays, 201.
 Arts and Crafts Exhibition Society, London, 195, 201.
 Ashbee, C. R., 195.
 Ashley, W. J., 58.
 Ashton, J., 90.
 Association of Engineering Societies, 16.
 Atkinson, E., 68, 112, 178.
 Atterbury, A. P., 67.
 Atwater, W. O., 178.
 Audubon, M. R., 151.
 Austen, P. T., 125.
 Austen, W. C. R., 186.
 Australasian encyclopædia, 233.
 Authors and publishers, 180.
 Aveling, E. B., 54, 144.
 Avery, E. M., 112.
 Ayer & Son, N. W., 11.
 Ayres, A., 96.
 Bache, F., 166.
 Bacon, F., 37.
 Baedeker, K., 227.
 Baernreither, J. M., 66.
 Bagehot, W., 41, 63.
 Bailey, F. H., 106.
 Bailey, L. H., 144, 175, 176 (3), 177 (2).
 Bailward, W. A., 44.
 Bain, A., 37.
 Baird, S. F., 157.
 Baker, C. W., 70.
 Baker, I. O., 192.
 Baker, M. N., 174.
 Baldwin, E. L., 153.
 Baldwin, J. M., 31, 32, 153.
 Baldwin, James, 24.
 Baldwin, Joseph, 85.
 Baldwin, W. J., 193.
 Balfour, F. M., 152.
 Balfour, I. B., 145.
 Ball, Sir R. S., 108 (3), 109, 110, 111.
 Ball, W. W. R., 103, 104.
 Bancroft, G., 74.
 Barber, E. A., 199.
 Barber, T. W., 168, 169.
 Bardeen, C. W., 83, 85, 89.
 Baretti, G., 100.
 Barker, G. F., 112.
 Barnett, P. A., 82.
 Barnett, S. A., 44.
 Barns, W. E., 60.
 Barr, W. M., 171.
 Barringer, D. M., 172.
 Bartholomew, J. G., 214 (2).
 Bartlett, J., 207.
 Bartlett, J. R., 96.
 Barus, C., 113.
 Bary, A. de, 146.
 Barsable, C. F., 67, 89.
 Bateman, G. C., 151.
 Bates, H. W., 232.
 Bather, F. A., 150.
 Bayne, W., 94.
 Baynes, R. E., 116.
 Bazin, R., 48.
 "Beagle," Ship, 135.
 Beazley, C. R., 212.
 Becker, B. H., 26.
 Beckmann, J., 162.
 Beddard, F. E., 154.
 Bedson, P. P., 121.
 Behaghel, O., 98.
 Behrens, W. J., 143.
 Beilstein, F. F., 126.
 Bell, Sir J. Bart., 76.
 Bell, L., 172.
 Bell, N. R. E. M., see Anvers, N. d'.
 Bell, T. F., 189.
 Belt, T., 136.
 Belton, J. D., 207.
 Bemis, A. A., 77.
 Bemis, E. W., 77.
 Bemrose, W., 199.
 Benedikt, R., 123.
 Benjamin, P., 161 (2).
 Benn, A. W., 37.
 Bennett, A. W., 147.
 Bennett, E. H., 73.
 Berdoe, E., 163.
 Berg, L. de C., 192.
 Berghaus, H., 128, 130.
 Berkeley, M. J., 142, 148.
 Berlin, Adressbuch, 222.
 Bernard, H. M., 150, 152.
 Bernard, M., 152.
 Bernthsen, A., 126.
 Berry, A., 108.
 Berthelot, A., 24.
 Berthelot, M., 122.
 Bertillon, J., 49.
 Best books, 9.
 Bevan, E. J., 189.
 Biart, L., 48.
 Bible, 39.
 Bibliographia sociologica, 12.
 Bibliographia zoologica, 7, 16.
 Bibliographie der deutschen Zeitschriften-Litteratur, 11.
 Bibliography of American botany, 8.
 Bibliophile, see Deschamps, P.
 Bibliotheca entomologica, 16.
 Bibliotheca zoologica, 16 (2).
 Bibliothèque photographique, 7.
 Bicycle repairing, 191.
 Biedermann, R., 17.
 Bien & Co., J., 215.
 Bigelow, J., Jr., 78.
 Bigmore, E. C., 180.
 Billings, J. S., 175.
 Binet, A., 155.
 Biographie nationale (Bruxelles), 218.
 Biographie nationale des contemporains. (Paris), 218.
 Biographie universelle, 216.
 Birrell, A., 61.
 Bishop, I. L. B., 233.
 Black, H. C., 74.
 Blackburn, H., 181.
 Björkman, C. G., 98.
 Blackie's modern cyclopedia, 23.
 Blaine, R. S., 170.
 Blake, J. F., 109.
 Blanchard, R., 229.
 Bliss, W. D. P., 42.
 Block, M., 42.
 Blomfield, R., 195.

- Bluntschli, J. K., 50.
 Blyth, A. W., 124, 164.
 Boase, F., 218.
 Bôcher, F., 100.
 Böckmann, F., 122.
 Bodley, J. E. C., 51.
 Bodmer, G. R., 170.
 Boettger, O., 150.
 Bogart, J., 182.
 Böhm-Bawerk, E. von, 54.
 Bolland, S., 187.
 Bolton, H. C., 15.
 Boltwood, B. B., 125.
 Bonar, J., 57.
 Bonham, J. M., 89.
 Bonney, T. G., 128, 129, 131.
 Booth, C., 61, 70 (2).
 Booth, W., 70.
 Borchers, W., 119.
 Borgeaud, C., 72.
 Borgh, R. van der, 62.
 Börnstein, R., 113.
 Bosanquet, B., 32, 33 (2), 34, 43 (2).
 Bosanquet, H. D. See Dendy, H.
 Boston Public Library, 15, 18, 120.
 Boston Cooking-School cook book, 179.
 Boston directory, 228.
 Botta, V., 27.
 Bouchot, H., 180.
 Bouillet, M. N., 209.
 Bourgeois, —, 7.
 Bourne, H. R. F., 25.
 Boutmy, E., 72.
 Bowen, F., 48.
 Bowen, H. W., 72.
 Bower, F. O., 146.
 Bowker, R. R., 10, 12.
 Brabrook, E. W., 65.
 Brachet, A., 99 (2).
 Brackett, A. C., 81.
 Bradford, G., Jr., 221.
 Bradley, A. C., 36.
 Bradley, F. H., 28.
 Bradley, H., 96.
 Brainerd, I. H., 73.
 Brandeis, L. D., 55.
 Brann, W. T., 119, 185 (2), 187, 188.
 Brehm, A. E., 150.
 Brentano, L., 69.
 Brewer, E. C., 23 (4).
 Brewer, T. M., 157.
 Brewster, Sir D., 103.
 Brewster, W., 158.
 Briggs, A., 65.
 Briggs, H. C., 65.
 Briggs, W., 105.
 Brinton, D. G., 38, 91, 139.
 British Museum, Department of Printed Books, 18.
 British North America. Gazetteer, 226.
 Britton, N. L., 147.
 Brockhaus' Konversations-Lexikon, 24.
 Brooke, S. A., 207.
 Brooker, A., 118.
 Brookings, W. D., 44.
 Brooklyn Ethical Association, 140.
 Brooks, W. K., 149.
 Brothers, A., 203.
 Brown, A., 147.
 Brown, E., 53.
 Brown, G. P., 173.
 Brown, H. W., 29, 30.
 Brown, J. D., 205.
 Browning, O., 81.
 Brunetière, F., 208.
 Brush, G. J., 127.
 Brussels, Académie royale des sciences, des lettres et des beaux-arts, 218.
 Bryan, G. H., 105.
 Bryan, M., 203.
 Bryant, J. C., 180.
 Bryce, J., 48, 225.
 Bucknall, B., 198.
 Budge, E. A. W., 91.
 Buck, G., 82.
 Buckle, G. E., 82.
 Buckley, A. B., 135.
 Bucquet, —, 7.
 Buisson, F., 82.
 Bullock, C. J., 56.
 Bunbury, E. H., 213.
 Bunge, G. von, 126.
 Burch, G. J., 116.
 Bureau of the American republics, 161, 232.
 Burgess, J. W., 51.
 Burke, H. F., 219.
 Burke, Sir J. B., 219.
 Burr, S. V. D., 190.
 Burrell, A., 82.
 Burrows, M., 53.
 Burt, B. C., 27.
 Burton, W. K., 174, 204.
 Bushée, F. A., 48.
 Busk, M., 143.
 Butler, H. J., 138.
 Butler, N. M., 88.
 Butterfield, W. J. A., 185.
 Butterfill, H. H., 105.
 Byerly, W. E., 103, 106, 107 (2).
 Byrne, O., 167.
 Cabinet maker, 190.
 Cable, G. W., 49 (2).
 Caird, J., 25.
 Cajori, F., 113.
 Caldwell, G. C., 123.
 Callwell, C. E., 79.
 Campbell, D. H., 148.
 Campbell, H. J., 142, 149.
 Campbell, H. S., 60 (3), 178.
 Campbell, M., 142, 149.
 Campbell, W. W., 109.
 Canadian men and women, 219.
 Candolle, A. de, 146.
 Cannell, A. E. M., 88.
 Card, F. W., 176.
 Card index of genera, . . . of plants, 7.
 Carmichael, C. H. E., 73.
 Carpenter, G. R., 96.
 Carpenter, J., 110.
 Carpenter, R. C., 168, 193.
 Carpenter, W. B., 29.
 Carpenter, W. L., 186.
 Carr, A. B., 59.
 Carr, G. S., 103.
 Carter, O., 201.
 Carus, J. V., 16 (2).
 Cassino, S. E., 134.

- Castle, E., 26.
 Catalogue of the public documents ... of the United States, 13.
 Catalogue of the United States public documents, 14.
 Cates, W. L. R., 216.
 Celebrities of the century, 217.
 Century atlas of the world, 215.
 Century cook book, 178.
 Century cyclopedia of names, 21.
 Century dictionary, 21.
 Century of dishonor, 225.
 Chailley-Bert, J., 56.
 "Challenger," Ship, 135 (2).
 Chamberlain, M., 158.
 Chambers, G. F., 107, 110.
 Chambers' encyclopædia, 23.
 Chambers's biographical dictionary, 216.
 Champlin, J. D., Jr., 203, 205.
 Champlin, V., 201.
 Chance, H., 185.
 Chance, W., 80.
 Chandler, W. H., 22.
 Chandler's encyclopedia, 22.
 Chanute, O., 114.
 Chapin, F. H., 231.
 Chapman, E. T., 124.
 Chapman, F. M., 158.
 Check list of public documents, 13.
 Chemisch - technische Untersuchungs-
 methoden, 122.
 Chemistry of common life, 182.
 Cheshire, F. R., 177.
 Chester, A. H., 127.
 Chicago. Board of Trustees of the Sani-
 tary District, 173.
 Chicago. Civil Service Commission, 77.
 Chicago. Directory, 230.
 Chicago. Public Library, 18.
 Chicago blue book, 230.
 Chicago Post Office. Bureau of Publica-
 tion, 78.
 Chipiez, C., 196 (6).
 Chisholm, G. G., 89, 212, 214, 220.
 Christie, A. M., 29.
 Christy, R., 91.
 Church, A. H., 182.
 Churchward, W. B., 233.
 Cincinnati. Directory, 230.
 City wilderness, 48.
 Civil service question book, 75.
 Clark, D. K., 169, 172.
 Clark, J. A., 7.
 Clark, J. B., 56, 67.
 Clark, L., 90.
 Clark, T. M., 192.
 Clarke, J. T., 196.
 Clarke, T. C., 182.
 Classen, A., 125 (2).
 Claus, C., 149.
 Clerke, A. M., 108 (2), 110.
 Cleveland. Directory, 229.
 Cleveland. Public Library, 10.
 Clifford, W. K., 102.
 Clinton, G. W., 180.
 Clodd, E., 39, 136, 140.
 Cochrane, R., 162.
 Cockcroft, J., 71.
 Cohn, G., 57, 67.
 Cohn, L. See Lassar-Cohn.
 Coit, S., 80.
 Colange, L. de, 160.
 Cole, A. S., 202.
 Cole, W. I., 48.
 Colquhoun, A. R., 224, 227.
 Comelati, G., 100.
 Comey, A. M., 122.
 Commercial directory of the American
 republics, 232.
 Commercial nomenclature, 161.
 Commercial year book, 49.
 Compayré, G., 31, 83.
 Compendium of transportation theories,
 182.
 Comprehensive index of the publications
 of the government, 13.
 Compton, A. G., 190.
 Comstock, A. B., 155.
 Comstock, J. H., 155, 156.
 Conant, C. A., 63.
 Conant, T. J., 20.
 Concilium bibliographicum, Zurich, 7, 16.
 Concise knowledge astronomy, 108.
 Concise knowledge natural history, 150.
 Concordance to the Old and New Testa-
 ment, 39.
 Conference for Good City Government,
 76.
 Congrès international de bibliographie
 des sciences mathématiques, 7 (2).
 Conklin, E. G., 141.
 Conkling, A. R., 77.
 Conn, H. W., 149.
 Conrad, J., 42.
 Conway, Sir W. M., 196.
 Conybeare, M. E. M., 208.
 Cook, C. C., 179.
 Cook, E. T., 196.
 Cook, W. W., 69.
 Cooke, M. C., 148.
 Cooley, A. J., 161.
 Cooley, T. M., 74, 182.
 Co-operative Wholesale Societies, 65.
 Copp, H. N., 172.
 Corbett, M., 44.
 Cornish, C. J., 152.
 Corroyer, E., 199.
 Cossa, L., 57.
 Costelloe, B. F. C., 37.
 Coues, E., 151, 157, 158 (2).
 Coulter, J. M., 145.
 Cousin, V., 38.
 Cox, Sir G. W., Bart., 23.
 Cox, H., 65.
 Crabb, G., 95.
 Cram, G. F., 215.
 Crandall, F. A., 13.
 Crane, W., 181, 194, 195.
 Crane, W. J. E., 191.
 Creatures of other days, 133.
 Creighton, J. E., 30.
 Crocker, F. B., 118.
 Crocker Co., H. S., 231.
 Crole, D., 175.
 Croll, J., 129, 131.
 Crookes, W., 123, 183.
 Crosby, O. T., 172.
 Cross, C. F., 189.

- Crown of wild olive, 43.
 Crozier, J. B., 41.
 Cruden, A., 39.
 Cumulative index, 10.
 Cunningham, C. D., 73.
 Cunningham, J. T., 140.
 Cunningham, W., 46, 58 (2).
 Curtin, J., 40.
 Curtis, R. H., 75.
 Cushing, M., 78.
 Cyclopædia of American biography, 218.
 Cyclopædia of American literature, 207.
 Cyclopædia of education, 82.
 Cyclopædia of political science, 42.
 Cyclopædia of temperance, 36.
 Cyclopædia of music and musicians, 205.
 Cyclopædia of painters and painting, 203.
 Dabney, W. D., 89.
 Daily news almanac, 21.
 Dall, W. H., 137.
 Dallinger, F. W., 52.
 Dalton, W. H., 15.
 Dammier, O., 183.
 Dana, C. A., 20, 25.
 Dana, E. S., 126 (2), 127 (2).
 Dana, J. C., 18 (2).
 Dana, J. D., 126, 127, 128, 130.
 Daniell, A., 112.
 Daniels, W. M., 68.
 D'Arcy, C. F., 36.
 Darwin, C., 131, 135, 141 (2), 142, 146 (3), 153 (2), 155.
 Darwin, F., 145, 146.
 Darwin, G. H., 111.
 Darwin, L., 64.
 Davenport, C. B., 152.
 Davenport, H. J., 56.
 Davenport, J., 100.
 Davey, R., 227.
 Davidson, A. B., 39.
 Davidson, T., 84 (2).
 Davidson, W. L., 95.
 Davies, C., 103.
 Davies, D. C., 132.
 Davies, E. H., 132.
 Davies, P. J., 193.
 Davis, C. T., 189.
 Davis, J. D., 39.
 Davis, J. E., 179.
 Davis, L. J., 202.
 Davis, W. M., 130, 131.
 Dawson, S. E., 226.
 Dawson, W. H., 59.
 Day, L. F., 194, 200 (3), 201, 202.
 Deakin, R., 105.
 Dean, B., 157.
 De Garmo, C., 85.
 Dendy, H., 43.
 Denslow, V. B., 55.
 Dental register, 166.
 Denver, Col. Public Library, 18.
 Deploige, S., 51.
 Derechef, R., 208.
 Deschamps, P., 211.
 Deschanel, A. P. See Privat-Deschanel, A.
 Descriptive index of current engineering literature, 16.
 Des Essars, P., 62.
 Deshumbert, M., 99.
 Detmer, W., 145.
 Detroit, Directory, 231.
 Devic, M., 98.
 De Vinne, T. L., 181.
 Devlin, T. C., 77.
 Dewey, J., 103.
 Dewey, M., 19.
 Dexter, S., 65.
 Dicey, E. M., 72.
 Dickinson, G. L., 53.
 Dictionnaire de géographie, 211.
 Dictionnaire de pédagogie, 82.
 Dictionnaire géographique et administratif de la France, 222.
 Dictionnaire international des écrivains du jour, 216.
 Dictionnaire universel des contemporains, 217.
 Dictionnaire, universel des littératures, 217.
 Dictionnaire universel d'histoire, 209.
 Dictionary of Americanisms, 96.
 Dictionary of applied chemistry, 184.
 Dictionary of biographical reference, 217.
 Dictionary of dates, 24.
 Dictionary of English authors, 218.
 Dictionary of general biography, 216.
 Dictionary of miracles, 23.
 Dictionary of music, 205.
 Dictionary of music and musicians, 205.
 Dictionary of national biography, 218.
 Dictionary of painters and engravers, 203.
 Dictionary of phrase and fable, 23.
 Dictionary of the Bible, 39 (3).
 Didot Frères, F., 216.
 Dietrich, F., 11.
 Dilke, Sir C. W., Bart., 52.
 Dillmont, Thérèse de, 202.
 Directorio nacional de Honduras, 227.
 Disinfection and disinfectants, 165.
 Dixon, F. H., 90.
 Dobbin, L., 121.
 Dodsworth, W. A., 49.
 Dole, N. H., 223.
 Don, G., 144.
 Donaldson, H. H., 163.
 Donkin, B., 170.
 Donnelley, R. H., 230.
 Doty, A. H., 165.
 Doyle, J. A., 228.
 Drage, G., 61, 70.
 Drainage channel and waterway, 173.
 Dreyfus, F. C., 24.
 Driver, S. R., 39.
 Droysen, G., 213.
 Drucker, A., 45.
 Drude, O., 147.
 Du Cane, Sir E. F., 80.
 Ducoudray, G., 45, 46.
 Duff, E. G., 181, 191.
 Dukes, C., 82.
 Dunbar, C. F., 63.
 Durand, E. D., 77.
 Durand, J., 47 (2).
 Duyckinck, E. A., 207.
 Duyckinck, G. L., 207.
 Dye, F., 193.
 Dyer, H., 69, 102.

- Dyer, L., 57.
 Dyer, T. F. T., 90.
 Eagle's nest, 105.
 Eastlake, C. L., 202.
 Eaton, D. B., 76 (2).
 Eaton, I., 59.
 Eberhard, J. A., 97.
 Eckoff, W. J., 85.
 Ede, G., 188.
 Eden, C. H., 227.
 Edgren, A. H., 100.
 Edis, R. W., 202.
 Edwards, A. B., 220.
 Edwards, E., 160.
 Edwards, J., 59.
 Egerton, H. E., 52.
 Eggleston, T., 127.
 Eiloart, A., 122.
 Eimer, G. H. T., 140.
 Ekelöf, J. A., 212.
 Elger, T. G., 110.
 Eliot, C. W., 83.
 Elliott, D. G., 158.
 Elliott, H. W., 231.
 Elliott, J. R., 69.
 Elliott, S. M., 178.
 Ellis, A. J., 115.
 Ellis, H., 28, 80.
 Elster, L., 42.
 Ely, R. T., 44, 55 (2), 56, 59 (2), 60, 66, 68.
 Ely, T., 216.
 Encyclopädisches Handbuch der technischen Chemie, 183.
 Encyclopædia Britannica, 22, 24.
 Encyclopædia Britannica, American supplement, 20.
 Encyclopædia Britannica, New American supplement, 22.
 Encyclopedia of needlework, 202.
 Encyclopedia of social reform, 42.
 Endlich, F. M., 124.
 Engelmann, W., 16.
 Engels, F., 54.
 Engineering index, 16.
 English dialect dictionary, 96.
 Era formulary, 166.
 Euclid. See Eukleides.
 Eukleides, 105.
 Evans, E. P., 36.
 Evans, H. R., 206.
 Evans, T. J., 105.
 Everett, C. C., 38.
 Everett, J. D., 112 (2), 114.
 Ewart, M. F., 143.
 Extinct monsters, 133.
 Fact, fancy and fable, 21.
 Fahie, J. J., 118.
 Fairbanks, A., 42.
 Falkner, R. P., 49.
 Familiar allusions, 20.
 Familiar quotations, 207.
 Famous composers, 206 (2).
 Farman, D., 173.
 Farmer, F. M., 179.
 Farrer, J. A., 38, 74.
 Farrow, E. S., 78.
 Farthest north, 234.
 Fawcett, H., 69.
 Feast of Autolykus, 179.
 Fehling, H. von, 120.
 Felkin, E., 81.
 Felkin, H. M., 81.
 Fennell, C. A. M., 93.
 Fernald, J. C., 95.
 Fernand-Michel, F. F., 90.
 Ferri, E., 80.
 Field, H. H., 7, 16.
 Field, H. M., 118.
 Fiennes, G., 44.
 Fijnje van Salverda, J. G. W., 114.
 Finley, J. H., 68.
 Firth, R. H., 165.
 Fischer, F., 183 (2).
 Fischer-Hinnen, J., 119.
 Fisher, A. B. B. See Buckley, A. B.
 Fisher, I., 105.
 Fisher, W. R., 177.
 Fiske, J., 72, 74, 218, 225.
 Fiske, T. S., 103.
 Fitch, Sir J. G., 81, 83.
 Flags of the world, 219.
 Flammarion, C., 109, 110.
 Flashlights on nature, 134.
 Fleck, H., 123.
 Fleischmann, W., 177.
 Fleming, G., 177.
 Fletcher, A. E., 82.
 Fletcher, B., 198.
 Fletcher, B. F., 198.
 Fletcher, W. I., 10 (3), 11 (3), 18.
 Flint, R., 66.
 Flower, Sir W. H., 159.
 Flügel, F., 97 (2).
 Flügel, J. G., 97.
 Follett, M. P., 53.
 Forbes, H. O., 136.
 Ford, W. C., 73.
 Foreman, J., 232.
 Foreman pattern maker, 169.
 Forney, M. N., 182.
 Forsyth, A. R., 107.
 Fortescue, G. K., 18.
 Fortnum, C. D. E., 200 (2).
 Foster, C. L. N., 172.
 Foster, F. P., 163.
 Foster, M., 152, 163.
 Fourtier, H., 7.
 Fowler, A., 108, 109.
 Fowler, T., 37, 38.
 Fraenkel, A., 123.
 Francis, W., 162.
 Franklin, W. S., 112.
 Fraser, A. C., 28.
 Freer, P. C., 125.
 Freeman, E. A., 209, 213.
 French, G. H., 156.
 Fresenius, C. R., 124 (2).
 Frewer, E. E., 224.
 Frey, A. R., 21.
 Friedel, C., 120.
 Froebel, F., 85 (2), 87.
 Frost, A. J., 15.
 Frost, E. B., 109.
 Froude, J. A., 52, 227.
 Fuertes, L. A., 158.
 Fugitive facts, 21.
 Fuller, J., Sr., 188.

- Fulton, J., 184.
 Funk, I. K., 94.
 Furman, H. V. F., 186.
 Furneaux, W. S., 151.
 Fustel de Coulanges, N. D., 45.
 Fyfe, H. H., 10.
 Fyffe, C. A., 221.
 Gadow, H., 158.
 Gage, M. J., 52.
 Galloupe, F. E., 16.
 Galton, Sir D., 173.
 Galton, F., 31, 141.
 Gannett, H., 77, 228.
 Ganot, A., 112.
 Gardner, J. S., 189.
 Garland, D. S., 71.
 Garner, J. L., 48.
 Garner, R. L., 159.
 Garnett, R., 19.
 Garnett, W., 113.
 Garnsey, H. E. F., 144.
 Garrett, J., 176.
 Garstang, W., 150.
 Gayer, K., 177.
 Geddes, P., 43, 143.
 Gee, G. E., 188.
 Geikie, Sir A., 128 (2), 129 (2).
 Geikie, J., 130, 131.
 Geological record, 15.
 Georg, C., 9.
 George, H., 64, 67.
 Gerland, G. K. N., 138.
 Germany. Kais. Patentamt, 17.
 Gibbins, H. de B., 89.
 Gibbs, W. E., 185.
 Gibson, W. H., 135 (2), 148.
 Giddings, F. H., 41, 42, 43.
 Gillespie, W. M., 111.
 Gillies, J., 37.
 Gilman, D. C., 48, 89.
 Gilman, N. P., 65.
 Gladden, W., 43.
 Glaeser, E., 218.
 Glasgow, D., 190.
 Glazebrook, M. G., 82.
 Godkin, E. L., 51.
 Goebel, K., 145.
 Göhre, P., 59.
 Golden, M. J., 190.
 Gonino, J., 196, 200.
 Gonner, E. C. K., 82.
 Goodeve, T. M., 113.
 Goodnow, F. J., 76, 77.
 Goodwin, W. W., 101.
 Gopsill's Sons, J., 229.
 Gordon, A. C., 68.
 Gore, J. E., 108.
 Gore, J. H., 111.
 Gorst, Sir J., 44.
 Goschen, G. J., 64.
 Goss, W. F. M., 190.
 Gould Directory Co., 231.
 Graham, R. H., 105.
 Graham, T., 120.
 Graham, W., 54.
 Grande encyclopédie, 24.
 Grandgent, C. H., 100.
 Gräsel, A., 18.
 Graves, R. E., 203.
 Gray, Andrew, 117.
 Gray, Asa, 143 (2), 144, 147.
 Grav, T., 113.
 Greely, A. W., 212, 233.
 Green, A. H., 132.
 Green, J. R., 221.
 Green, T. H., 36.
 Greene, W. H., 120.
 Greenhill, A. G., 106.
 Greenough, J. B., 101.
 Greenwood, J. M., 85.
 Greenwood, T., 19.
 Gregory, D. S., 94.
 Gregory, R., 88.
 Gresley, W. S., 172.
 Griffis, W. E., 224.
 Griffith, J. W., 142, 162.
 Griffiths, A. B., 151.
 Griffiths, T. M., 166.
 Grimm, J., 40.
 Gröber, G., 92.
 Gronlund, L., 67.
 Groome, F. H., 216.
 Groos, K., 153.
 Gross, C., 13.
 Grosse, E., 138.
 Grote, G., 37, 220.
 Grove, Sir G., 205, 213.
 Groves, C. E., 183.
 Gubernatis, A. de, 216.
 Guhl, E., 46.
 Guillemard, F. H. H., 232.
 Gulliver, J. H., 34.
 Guimps, R. de, 84.
 Gummere, F. B., 45.
 Guppy, H. B., 233.
 Gurney, E., 32.
 Haacke, W., 150.
 Haddon, A. C., 137, 138.
 Hadley, A. T., 56, 182 (2).
 Haeckel, E., 139, 140, 152.
 Haferkorn, H. E., 16.
 Hagen, H. A., 16.
 Hailmann, W. N., 86.
 Haité, G. C., 201.
 Haldane, R., 160.
 Hall, G. S., 14.
 Hall, T. D., 100.
 Hall, W. E., 72.
 Halle, E. von, 70.
 Halliburton, W. D., 151.
 Halliwell-Phillips, J. O., 95.
 Halsted, G. B., 103.
 Hamilton, H., 99 (2).
 Hamilton, W., 26.
 Hammarsten, O., 126.
 Hanausek, T. F., 184.
 Handbuch der Hygiene, 164.
 Handbuch der Ingenieurwissenschaften, 167.
 Handwörterbuch der Staatswissenschaften, 42.
 Handy lists of technical literature, 16.
 Handy-book of literary curiosities, 24.
 Hann, J., 131.
 Hansen, E. C., 184.
 Hanus, P. H., 104.
 Harcourt, L. F. V., 167.
 Hardy, W. J., 26.

- Hare, J. I. C., 73.
 Harper's book of facts, 22.
 Harris, H. G., 185.
 Harris, W. A., 183.
 Harris, W. T., 31, 38.
 Harrison, E., 86.
 Hart, A. B., 44, 53.
 Hartland, E. S., 91.
 Hasluck, P. N., 190.
 Hasse, A. R., 13.
 Hastings, J., 39.
 Haswell, W. A., 150.
 Hatfield, O. P., 191.
 Hatfield, R. G., 191.
 Hathaway, A. S., 106.
 Haydn, J., 24.
 Haynes, F. E., 48.
 Hazell's annual, 23.
 Hazen, C. D., 72.
 Headley, F. W., 158.
 Heape, W., 152.
 Hearn, L., 227.
 Heathcote, F. G., 149.
 Hegel, G. W. F., 33.
 Heider, K., 152.
 Heilprin, L., 209.
 Heise, P., 16.
 Hell, C., 120.
 Helmholtz, H. von, 115.
 Henfrey, A., 142, 143.
 Henry, W. A., 177.
 Henshaw, H. W., 158.
 Herbart, J. F., 81, 85.
 Hermann, G., 168.
 Herrick, W. H., 125.
 Hertwig, O., 142.
 Hess, R., 177.
 Hewes, F. W., 182.
 Heyne, M., 97.
 Hickcox, J. H., 13.
 Higginson, T. W., 91.
 Hill, C. T., 165.
 Hill, J. A., 57.
 Hill, J. W., 174.
 Hill, R. T., 227.
 Hill, T., 104.
 Hill, W. K., 82.
 Hillhouse, W., 146.
 Hinsdale, B. A., 84, 88, 209, 229.
 Hiscox, G. D., 169, 171.
 Historic note-book, 23.
 Historical reference book, 209.
 History for ready reference, 209.
 History of banking, 62.
 Hobson, E. W., 105.
 Hobson, J. A., 59, 61, 69.
 Hodson, J. S., 203.
 Hoefer, F., 216.
 Hoefer, H., 185.
 Hoff, J. H., van't., 122.
 Hoffmann, F., 124.
 Hofmann, E., 156.
 Holahan, C. M., 179.
 Holbrook, A. S., 59.
 Holder, C. F., 152.
 Holgate, T. F., 106.
 Holiday, H., 202.
 Holland, W. J., 156.
 Holman, H., 82.
 Holst, H. von, 73.
 Honduras. Directorio, 227.
 Hood, C., 193.
 Hooker, Sir J. D., 144.
 Hopkins, A. A., 161, 206.
 Horn, A. E., 62.
 Horne, H. P., 191.
 Horner, J. G., 169, 187.
 Horr, N. T., 77.
 Horrocks, Mrs. G., 221.
 Hough, F. B., 176.
 Houghton, W. R., 53.
 Household dictionary of medicine, 163.
 Houston, E. J., 117, 172.
 Howarth, W., 63.
 Howe, E. G., 87.
 Howe, H. A., 108, 110.
 Howell, G., 62.
 Howorth, Sir H. H., 128.
 Hudson, F., 25.
 Hueffer, F., 46.
 Hughes, J. L., 86.
 Hughes, T., 65.
 Hughes, T., S. J., 84.
 Hull, W. L., 70.
 Hull-House, Chicago, 59.
 Hulme, F. E., 91, 210.
 Hummel, J. J., 185.
 Humphrey, J. E., 143.
 Humphreys, H. N., 199.
 Hunt, H. F. See Jackson, H. F.
 Hunter, Sir W. W., 224.
 Huntington, J. O. S., 43.
 Hurd, H. B., 75.
 Huss, G. M., 199.
 Hutchinson, H. N., 123 (2), 137.
 Hutchinson's Australasian encyclopædia, 233.
 Huxley, T. H., 155.
 Hyde, E. W., 103.
 Hyde, W. D., 27.
 Iconographic encyclopædia, 20.
 Ihering, R. von. See Jherinz, R. von.
 Iles, G., 12, 17.
 Illinois General Assembly, 75 (2).
 Illinois state gazetteer, 230.
 Illustrated dictionary of gardening, 176.
 Illustrated encyclopædic medical dictionary, 163.
 Im Thurm, E. F., 139.
 Image, S., 201.
 Imperial dictionary, 94.
 Index to engineering periodicals, 16.
 Index to the periodicals, 11.
 Index to the subjects of the documents and reports, 14.
 Indiana state gazetteer, 230.
 Indianapolis Monetary Convention, 1867, 63.
 Industrial School Association, Boston, 192.
 Ingram, A. F. W., 44.
 Ingram, J. K., 57.
 Iowa state gazetteer, 231.
 Irish peasant, 60.
 Irving, J., 210.
 Italy. Camera dei deputati. Biblioteca, 10.
 Jackman, W. S., 87.
 Jackson, C., 44.
 Jackson, H. F., 225.

- Jackson, M., 25.
 Jacobson, P., 126.
 Jacoby, H. S., 172.
 Jago, W., 178.
 James, E. J., 57.
 James, H. E. M., 224.
 James, T. L., 182.
 James, W., 30.
 Jameson, J. A., 74.
 Jameson, J. F., 228.
 Jamieson, A., 169, 170.
 Jay, O., 44.
 Jeans, J. S., 173.
 Jebb, R. C., 223.
 Jensen, A., 62.
 Jernigan, T. R., 62.
 Jevons, W. S., 33 (2), 62.
 Jewett, H. M., 28.
 Jewett, M. A., 28.
 Jhering, R. von, 45.
 Joanne, P., 222.
 Johnson, H. K., 21.
 Johnson, J. B., 16, 111.
 Johnson, S. W., 124.
 Johnson, W. W., 103, 107.
 Johnson's universal cyclopædia, 21.
 Johnston, A. K., 215.
 Johnston, J. F. W., 182.
 Johnston, T. B., 215.
 Johnston, W., 162.
 Jones, E. R., 162.
 Jones, T. R., 142.
 Jordan, D. S., 141, 156.
 Jordell, D., 11.
 Jørgensen, A., 148.
 Jowett, B., 50, 57.
 Judd, C. H., 30.
 Kamensky, G., 120.
 Kant, I., 35.
 Kay, D., 32.
 Kedney, J. S., 38.
 Keane, A. H., 129, 138, 210, 211 (3), 223, 224, 232.
 Kelland, P., 106.
 Keller, H. F., 120.
 Kelley, F., 59.
 Kellner, L., 96.
 Kellogg, D. O., 22.
 Kelly, J. F., 208.
 Kelvin, W. T., 1st Baron, 102, 111.
 Kemp, W., 192.
 Kennelly, A. E., 172.
 Kentucky state gazetteer, 229.
 Kerl, B., 17, 183.
 Kerr, N., 28.
 Kerner von Marilaun, A., 143.
 Keynes, J. N., 57.
 Kidd, B., 41.
 Kidder, F. E., 192.
 Kiddle, H., 82.
 Kiepert, H., 214.
 Kiesow, F., 32.
 Kilbon, G. B., 193.
 Kimball, A. L., 114.
 King, F. H., 175.
 Kirby, W. F., 150.
 Kirk, J. F., 9.
 Kirkland, J., 230.
 Kirkpatrick, R., 150.
 Kirkup, T., 67.
 Kitchin, G. W., 99, 222.
 Kittredge, G. L., 101.
 Klauser, K., 206.
 Klemm, L. R., 84, 88.
 Kluge, F., 97.
 Knapp, J. M., 44.
 Knapp, W. I., 100.
 Knight, E. F., 224.
 Knight, E. H., 160 (2).
 Knight, G. H., 162.
 Knight, J., 164.
 Kohlrausch, F., 113.
 Koner, W., 46.
 König, J., 179.
 Koopman, H. L., 19.
 Koren, J., 36.
 Korschelt, E., 152.
 Krehbiel, H. E., 17.
 Külpe, O., 27, 30.
 Labberton, R. H., 213.
 Labour annual, 59.
 Lachambre, H., 234.
 Ladd, G. T., 27, 29 (2), 30, 32 (2).
 Lafaye, B., 99.
 Laing, S., 102.
 La Fontaine, H., 12.
 Lagrange, F., 164.
 Lakeside annual directory, 230.
 Lalor, J. J., 42, 73.
 Lamb, H., 107.
 Lambert, P. A., 106.
 Lane, G. M., 101.
 Landauer, J., 116.
 Landolt, H., 113.
 Lang, Andrew, 38.
 Lang, Arnold, 152.
 Lang, L. B., 223.
 Langbein, G., 119.
 Lange, H., 88.
 Langhaus, P., 215.
 Langille, J. H., 157.
 Langley, S. P., 109.
 Langmead, T. P. T., 73.
 Lankester, E. R., 140.
 Lanza, G., 167.
 Larned, J. N., 209.
 Larousse, P., 24.
 Larsen, A., 98.
 Lassar-Cohn, Dr., 183.
 Lathrop, J. C., 59.
 Latimer, E. W., 222 (3), 223.
 Laude, J., 18.
 Laughlin, J. L., 64.
 Laurie, S. S., 81, 84.
 Laveleye, E. de, 54, 223.
 Lawson, T. A., 120.
 Lea, A. S., 163.
 Leaning, J., 192.
 Leask, H., 186.
 Lecky, W. E. H., 35, 51.
 Le Conte, J., 115, 128.
 Lee, A. B., 143.
 Lee, F. S., 151.
 Lee, S., 218.
 Leete, C. H., 214.
 Lefébure, E., 202.
 Leffmann, H., 123.
 Legge, H., 44.

- Legros, E., 99.
 Leland, C. G., 91, 189 (2), 200.
 Lennholm, E. A., 148.
 Leonard, J. W., 218.
 Leroy-Beaulieu, P., 50.
 Letchworth, W. P., 80.
 Lethaby, W. R., 188, 195.
 Letourneau, C., 134.
 Levey, G. C., 233.
 Levi, L., 71.
 Lewis, C. T., 22, 100.
 Lewis, Sir G. C., 52.
 Lewis, G. H., 90.
 Lewis, J. S., 187.
 Lewkowitsch, J., 123.
 Lexis, W., 42.
 Library Association of the United Kingdom, 10.
 Library atlas of modern geography, 214.
 Liddell, H. G., 101.
 Life and labour of the people in London, 61.
 Liliencron, R. von, 218.
 Linder, N., 25.
 Lindgren, E., 98.
 Lippert, P., 42.
 Lippincott Co., J. B., 212, 217.
 Little cyclopædia of common things, 23.
 Littré, E., 98.
 Lloyd, H. D., 66, 70.
 Löb, W., 125 (2).
 Loch, C. S., 43.
 Lock, C. G. W., 160, 161.
 Locke, J., 28, 83.
 Lockyer, Sir J. N., 109 (2), 110.
 Lodge, H. C., 228.
 Lodge, O. J., 108, 117 (2).
 Loening, E., 42.
 Logerman, W. S., 92.
 London Charity Organization Society, 80.
 London. Directory, 221.
 London. International health exhibition, 1884, 165.
 London atlas of universal geography, 215.
 Loney, S. L., 106.
 Longmans, Green & Co., 212, 214.
 Lotze, H., 29, 32, 33.
 London, J. C., 144.
 London, J. W., 144.
 Lough, E., 32.
 Louis, H., 132, 186.
 Lounsbury, T. R., 93.
 Love, E. G., 173.
 Lovell & Son, J., 226.
 Low, S. J., 221.
 Lowell, A. L., 51.
 Lowell, P., 110.
 Lubbock, Sir J., Bart., 45, 136, 153, 155, 156.
 Lucas, C. P., 221.
 Lueger, O., 161.
 Lukin, J., 190.
 Lunge, G., 184, 186.
 Lydekker, R., 150 (2), 154, 158, 159.
 Lynn, W. T., 103, 108.
 Lyon, O., 97.
 Lyttelton, E., 82.
 McAlpine, A. N., 134.
 McAlpine, D., 134.
 MacArthur, A., 85.
 McCain, C. C., 182.
 McCallum, M., 43.
 McCarthy, J., 221.
 McClure, M. L., 220.
 McConachie, L. G., 53.
 MacCord, L. W., 202.
 McCormack, T. J., 113, 155.
 McCosh, J., 32.
 MacCoun, T., 214.
 McCook, H. C., 155.
 MacCunn, J., 36.
 Macdonald, W., 43.
 MacDougall, D. T., 145.
 Mace, Mrs. —, 44.
 Mace, W. H., 209.
 McFarland, F. M., 141.
 Macfarlane, A., 103.
 Macfarlane, C. W., 54.
 Macfarlane, J., 19.
 McGehee, L. P., 71.
 M'Gowan, G., 121, 126.
 Mack, E., 32, 113.
 Machuron, A., 234.
 Mackail, J. W., 219.
 M'Kechnie, W. S., 50.
 MacKellar, T., 180.
 M'Kendrick, J. G., 151.
 Mackenzie, J. S., 34, 41.
 Mackintosh, M., 67.
 Maclean, J., 225.
 McLellan, J. A., 103, 104.
 MacLeod, H. D., 62.
 McMahon, J., 103.
 McMaster, J. B., 227.
 McMillan, C., 111.
 McMillan, D. C., 52.
 McMillan, W. G., 119.
 McMurrich, J. P., 154.
 McMurry, C. A., 85.
 McMurry, F. M., 85.
 McNaught, W. G., 82.
 Macy, J., 72, 73.
 Madan, F., 26.
 Madison, J., 73.
 Mahaffy, J. P., 38, 46 (3).
 Mahan, A. T., 79.
 Maine, Sir H. S., 44 (2), 45, 51.
 Maitland, J. A. F., 205.
 Major, H., 87.
 Mallock, W. H., 66.
 Manaccin, M., 164.
 Manatt, J. I., 220.
 Mandel, J. A., 126.
 Mansfield, J. M., 14.
 Mantegazza, P., 29.
 Manual of statistics, 64.
 Map of Philippine islands, 215.
 March, F. A., 94.
 Manhaut, W., 48.
 Marey, E. J., 151.
 Marindin, S. E., 220.
 Marion & Co., London, 204.
 Maritime provinces, 226.
 Mark, E. L., 152.
 Markham, C. R., 212.
 Marmery, J. V., 102.
 Marot, H., 12.
 Marsh, G. P., 93.

- Marshall, A., 55, 60, 132.
 Marshall, W., 150, 154.
 Martin, A. T., 82.
 Martin, E. A., 132.
 Martin, H. N., 163.
 Martineau, J., 36.
 Martinengo-Cesaresco, E., 91.
 Marx, K., 54.
 Mason, A. B., 73.
 Mason, O. T., 162.
 Mason, W. P., 174.
 Maspéro, G., 45, 220 (2).
 Massachusetts Institute of Technology, 78, 85.
 Massart, J., 43.
 Massee, G., 145 (2).
 Masters, M. T., 143.
 Mastro-Valerio, A., 59.
 Mathews, C. T., 198.
 Mathews, F. S., 153.
 Mätzner, E., 96.
 Mauer, W., Jr., 118.
 Maxwell, J. C., 113, 116.
 May, Sir T. E., 46.
 May, W. J., 197.
 Mayeux, H., 200.
 Mechanics' own book, 191.
 Medical and surgical register of the United States and Canada, 163.
 Meijer, B., 25.
 Meitzen, A., 49.
 Meldola, R., 141, 186, 205.
 Men and women of the time, 216.
 Mendelyev, D., 120.
 Mendenhall, T. C., 117.
 Menke, T., 213.
 Menzel, W., 221.
 Mercier, C., 28.
 Merrill, G. P., 132.
 Merrill, J. H., 71.
 Merriman, M., 103, 172.
 Meyer, E. von, 121.
 Meyer, F. S., 200.
 Meyer, L. von, 121.
 Meyer, V., 126.
 Meyers Hand-Lexikon, 24.
 Miall, L. C., 82, 132, 155.
 Michaelis, E., 86.
 Michaud, J. F., 216.
 Michaud, L. G., 216.
 Michie, T. J., 71.
 Michigan state gazetteer, 230.
 Migula, W., 149.
 Military map, island of Puerto Rico, 215.
 Military map of the island of Cuba, 215.
 Mill, H. R., 102.
 Mill, J. S., 33, 37, 43.
 Millar, A., 201.
 Miller, W. J., 114, 167, 168, 169.
 Miller, A. K., 148, 184.
 Miller, E. F., 170.
 Miller, F., 194.
 Miller, S. A., 133.
 Mills, W., 153.
 Milne, J., 174.
 Milner, A., 57.
 Milwaukee Directory, 231.
 Minchin, G. M., 114.
 Missouri state gazetteer, 231.
 Mivart, St. G., 151, 157.
 Modern English biography, 218.
 Modern mechanism, 161.
 Moeller, J., 184.
 Monroe, W. S., 14.
 Moor, S. A., 145.
 Moore, H. K., 86.
 Moore, J. H. N., 144.
 Moore, S., 54.
 Morant, A. C., 50.
 Morfill, W. R., 223.
 Morgan, C. L., 140, 151, 152.
 Morgan, H. J., 219.
 Morgan, J. L. R., 122.
 Morgan, L. H., 45.
 Morgan, M. H., 101.
 Morley, H. F., 121.
 Morley, J., 35, 45.
 Morris, G. S., 27.
 Morris, I. H., 82.
 Morris, R., 96.
 Morris, W., 66, 194, 201.
 Morrison, W. D., 80.
 Moseley, H. N., 135.
 Moses, J., 230 (2).
 Mosse, A., 32.
 Mühlbrecht, O., 12.
 Muir, J., 136.
 Muir, M. M. P., 121 (4), 183.
 Muirhead, J. H., 36, 37.
 Mulhall, M. G., 49, 69.
 Müller, C., 213.
 Müller, F. M., 92 (2), 208.
 Munera pulveris, 59.
 Munich. K. Akademie der Wissenschaften, 218.
 Municipal affairs, 76.
 Munro, R., 137.
 Munroe, C. E., 17.
 Müntz, E., 202.
 Mure, W., 208.
 Muret, E., 97.
 Murphy, S. F., 164.
 Murray, G., 147.
 Murray, J. A. H., 93.
 Murray, J. C., 34.
 My studio neighbors, 135.
 Nadaillac, J. F. A. du P., marquis de, 137.
 Names and their histories, 212.
 Nansen, F., 234.
 Nares, Sir G. S., 182.
 Narrative and critical history of America, 225.
 Nash, H. S., 46.
 Nasmyth, J., 110.
 National Convention for Revising the Pharmacopœia, 165.
 National cyclopædia of American biography, 219.
 Naturalists' directory, 134.
 Naval annual, 79.
 Naval encyclopædia, 79.
 Neale, E. V., 65.
 Nesbitt, A., 185.
 Neues Handwörterbuch der Chemie, 120.
 Neumayer, G., 119.
 New American supplement to the Encyclopædia Britannica, 22.
 New English dictionary, 92.

- New Orleans. Directory, 229.
 New York, N. Y., City Vigilance League, 79.
 New York, N. Y. Directory, 229.
 Newcomb, S., 104.
 Newell, J. H. See Moore, J. H. N.
 Newhall, C. S., 147 (3).
 Newman, J., 192.
 Newsholme, A., 50.
 Newton, A., 158.
 Nichols, E. L., 112.
 Nicholson, G., 176.
 Nicholson, J. S., 55, 56, 63, 69.
 Nicolls, W. J., 132.
 Nitti, F. S., 67.
 Noll, F., 144.
 Non-secret formulas, 166.
 Nordenskiöld, A. E., 212.
 Nordhoff, C., 67.
 Nordisk familjebok, 25.
 Norman, J. H., 64.
 North W., 161.
 Norton, B., 182.
 Norton, C. E., 35, 43, 54, 195 (2), 198, 200, 203.
 Notter, J. L., 165.
 Nouvelle biographie générale, 216.
 Noyes, A. D., 68.
 Nuttall, T., 158.
 Ogilvie, J., 94.
 Ohio. Directory, 229.
 Oliver, F. W., 143.
 Olson, J. E., 98.
 Olsson, B. F., 25.
 Oman, C. W. C., 78.
 Oppenheim, N., 31.
 Orrinsmith, H., 201.
 Ortnier, J., 179.
 Osgood & Co., J. R., 226.
 Osmun, T. E., 96.
 Ost, L., 9.
 Osterburg, M., 15.
 Ostwald, W., 122.
 Otlet, P., 12.
 Otté, E. C., 223.
 Otto, E., 100.
 Otto, J. F., 120.
 Paine, J. K., 206.
 Painter, F. V. N., 83.
 Palgrave, R. H. I., 56.
 Pantaleoni, M., 54.
 Packard, A. S., 150, 155, 156.
 Paris. Annuaire-almanach, 222.
 Parker, F. W., 81, 86, 87.
 Parker, T. J., 134, 150.
 Parker, W. N., 141, 152.
 Parkhurst, C. H., 77.
 Parkman, F., 225.
 Parloa, M., 178.
 Parry, C. H. H., 205.
 Parsons, S., 197.
 Parsons, T., 75.
 Pasko, W. W., 180.
 Paton, J., 76.
 Patrick, D., 216.
 Patridge, L. E., 86.
 Paul, H., 92.
 Paulsen, F., 88.
 Pavements and roads, 173.
 Payne, J., 83.
 Payne, W. H., 83.
 Peabody, C. H., 168, 170.
 Pearce, W. J., 193.
 Pearson, K., 28.
 Pechuel-Loesche, E., 150.
 Peck, W. G., 103.
 Peirce, S. O., 107.
 Peloubet, F. N., 39.
 Peloubet, M. A., 39.
 Pendleton, J., 25.
 Penfield, S. L., 127.
 Pennell, E. R., 179.
 Pennell, J., 181 (2).
 People of the period, 217.
 Peppin, T. S., 44.
 Perez, B., 29.
 Perkins, C. C., 203.
 Perkins, T., 199.
 Perrin, M. L., 221.
 Perrot, G., 196 (6).
 Perry, E. D., 88.
 Perry, G. R., 227.
 Perry, J., 107.
 Peschel, O., 138.
 Petrie, W. M. F., 220.
 Phelps, P. H., 94.
 Philadelphia. Convention for forming the Constitution, 1787, 73.
 Philadelphia. Directory, 229.
 Philanthropy and social progress, 43.
 Phillips, A. W., 105.
 Phillips, J. A., 132.
 Phillips, L. B., 217.
 Pidgin, C. F., 49.
 Piesse, C. H., 186.
 Pillsbury, W. B., 27.
 Pinner, A., 125.
 Plarr, V. G., 216.
 Platon, 50.
 Plumbe, G. E., 21.
 Plummer, M. W., 18.
 Pocock, R. I., 150.
 Poesche, H., 86.
 Polk, R. L. & Co., 163, 166, 229, 230, 231 (4).
 Pollard, A. T., 82.
 Pollard, A. W., 26.
 Pollen, J. H., 202.
 Pollock, F., 102.
 Pomeroy, J. N., 71, 73.
 Poole, F. O., 11.
 Poole, W. F., 10, 11.
 Poole's index, 10, 11 (3).
 Poore, B. P., 13.
 Poore, G. V., 62.
 Porritt, E., 47.
 Porter, H., 182.
 Porter, H. C., 144.
 Porter, N., 19, 27, 94.
 Porter, R. P., 58.
 Posnett, H. M., 207.
 Posse, N., 86.
 Postoffice London directory, 221.
 Potter, B. See Webb, B. P.
 Poulton, E. B., 140, 153.
 Powell, H. J., 185.
 Power, F. B., 124.
 Practical blacksmithing, 190.

- Practical carriage building, 190.
 Practical designing, 201.
 Pratt, A. T. C., 217.
 Preece, W. H., 118.
 Prentiss, H. M., 234.
 Preston, T., 115, 116.
 Pretzman, J. R., 70.
 Preyer, W., 29, 30.
 Price, L. L. F. R., 58, 60.
 Prideaux, S. T., 191.
 Principles of fitting, 169.
 Pringle, A., 204, 205.
 Pritchard, E., 151.
 Privat-Deschanel, A., 112.
 Proctor, H. R., 113.
 Prout, H. G., 182.
 Prussia, K. Ministerium der öffentlichen Arbeiten, 18.
 Prussia, K. Ministerium für Handel, Gewerbe u. öffentliche Arbeiten, 17 (2).
 Pullen, W. W. F., 105.
 Pulling, F. S., 221.
 Putnam, G. H., 180, 181 (2).
 Putnam, J. B., 180.
 Pylodet, L., 100.
 Quatrefages de Bréau, A. de, 138.
 Quick, R. H., 83 (2).
 Rabbeno, U., 68.
 Rae, J., 61, 66.
 Raffalovich, A., 62.
 Rafter, G. W., 174.
 Rambaud, A. N., 223.
 Ramsay, W., 125.
 Rand, B., 12.
 Rand, McNally & Co., 214.
 Rankine, W. J. M., 114, 167, 168, 169.
 Rathbone, R. L. B., 201.
 Ratzel, F., 138.
 Ravenstein, E. G., 210 (2).
 Reade, W., 224.
 Reader's guide to contemporary literature, 9.
 Reader's guide in economic, social and political science, 12.
 Reader's handbook of allusions, 23.
 Real, A., pseud. See Fernand-Michel, F. F.
 Reber, F. von., 196.
 Reclus, E., 129, 210 (2), 211 (4).
 Reddall, H. F., 21.
 Reddaway, W. F., 53.
 Redgrave, G. R., 200.
 Redgrave, R., 200.
 Reeve, H., 48.
 Rein, W., 81, 83.
 Remington, J. P., 166.
 Remsen, I., 122, 175.
 Répertoire bibliographique des sciences mathématiques, 7.
 Répertoire bibliographique des revues françaises, 11.
 Repertorium der technischen Journal-Literatur, 17.
 Repertorium der technischen Literatur, 17.
 Review of reviews, 11.
 Revue semestrielle des publications mathématiques, 15.
 Reye, T., 106.
 Rhees, W. J., 12 (2).
 Rhodes, J. F., 228.
 Ribot, T., 29, 32.
 Ricardo, H., 195.
 Richards, E. H. S., 178 (2).
 Richards, F., 171.
 Richards, J. W., 186.
 Richardson, Sir B. W., 165.
 Richardson, M. T., 190 (2).
 Richardson, T., 183.
 Richter, V. von, 125.
 Rideal, S., 174.
 Ridgeway, W., 90.
 Ridgway, R., 157, 158 (2).
 Riemann, H., 205.
 Rieth, Dr. —, 17.
 Riis, J. A., 70.
 Rijke, J. de, 174.
 Ringwalt, R. C., 44.
 Ripley, G., 20.
 Ripley, W. Z., 15, 139.
 Risteen, A. D., 119.
 Ritchie, D. G., 41, 50, 67.
 Ritter, K., 212.
 Rix, W. P., 201.
 Roberts, I. P., 175.
 Robertson, G. C., 37.
 Robertson, J. M., 61.
 Robinson, B. L., 147.
 Robinson, S. W., 171.
 Robinson, W., 197 (2).
 Rodway, J., 136.
 Rogers, J. E. T., 46, 55, 60.
 Roget, J. L., 95.
 Roget, P. M., 95.
 Röhrig, E., 161.
 Romance of industry, 162.
 Romanes, G. J., 30, 140, 141, 153 (2).
 Romero, M., 226 (2).
 Romilly, H. H., 233.
 Ronald, M., 178.
 Ronalds, Sir F., 15.
 Rönnfeldt, H., 141.
 Rood, O. N., 115.
 Roosevelt, T., 231.
 Roscoe, Sir H. E., 120, 121.
 Rose, J., 169, 171.
 Rose, N. J., 197.
 Rosén, J., 25.
 Rosenkranz, J. K. F., 81.
 Rossiter, W., 102.
 Rouaix, P., 201.
 Routh, E. J., 114 (2).
 Rowbotham, J. F., 91.
 Roy, C. S., 158.
 Royal atlas of modern geography, 215.
 Royce, J., 35.
 Rücker, J., 132.
 Rückert, F., 97.
 Kuskini, J., 35, 43, 54, 195 (2), 198, 200, 203.
 Russell, H. B., 64.
 Russell, J., 84.
 Russell, I. C., 130 (3).
 Russell, T., 131.
 Sachs, J. von, 145 (2).
 Sachs, K., 99.
 Sadtler, S. P., 166, 183.
 St. Louis. Directory, 231.

- St. Paul. Directory, 231.
 Saintsbury, G., 207 (2).
 Salmon, D., 85.
 Salmon, L. M., 61.
 Salomon, O., 85.
 San Francisco, 231.
 Sanders, L. C., 217.
 Sanderson, T. J. C., 195.
 Sandford, M. E., 82.
 Sanford, E. C., 32.
 Santayana, G., 32.
 Saunders, W., 155.
 Say, L., 56.
 Sayce, A. H., 92, 220.
 Schäfer, E. A., 153, 154.
 Scheiner, J., 109.
 Scheler, A., 98.
 Schem, A. J., 82.
 Schenk, H., 144.
 Scherer, W., 208.
 Scherl, A., 222.
 Schimper, A. F. W., 144.
 Schlagwort-Katalog, 9.
 Schlich, W., 177.
 Schmidt, L., 97.
 Schmidt, O., 150.
 Schneider, A., 148.
 Schoenhof, J., 63.
 Scholz, F., 28.
 Schönland, S., 140.
 Schorlemmer, C., 120, 126.
 Schouler, J., 74, 228.
 Schubarth, E. L., 17.
 Schuyler, E., 53.
 Schwabe, L., 208.
 Schwegler, A., 27.
 Schweinfurth, G., 224.
 Schnabel, C., 186.
 Scidmore, E. R., 233.
 Scientific American cyclopedia of re-
 ceipts, 161.
 Scientific London, 26.
 Scott, A., 121.
 Scott, C. A., 106.
 Scott, D. H., 146.
 Scott, E. H., 73.
 Scott, H. M., 82.
 Scott, R., 101.
 Scudder, V. D., 47.
 Sedgwick, A., 149, 150, 152.
 Sedgwick, W. T., 134.
 Seebohm, F., 39.
 Seeley, L., 89.
 Selbie, J. A., 39.
 Serrailier, L., 173.
 Serviss, G. P., 109.
 Seth, J., 36.
 Shaler, N. S., 48, 128, 129 (2), 139, 173.
 Seward, G. F., 52.
 Sharp, A., 191.
 Sharp, R. F., 218.
 Sharpe, R. B., 150.
 Sharpless, I., 84.
 Shaw, A., 76 (2).
 Shaw, C. S. W., 162.
 Shedlock, J. S., 205.
 Sheib, E. E., 81.
 Sherborn, C. D., 15.
 Shipley, A. E., 140.
 Shorey, P., 73.
 Short, C., 100.
 Short, J. T., 139.
 Shufeldt, R. W., 158.
 Sidgwick, A., 32, 82.
 Sidgwick, H., 34, 35 (2), 51.
 Silver, A., 201.
 Simcox, E. J., 46.
 Simmonds, F., 199.
 Simmons, A. T., 129.
 Simpson, H. F. M., 137.
 Singleton, E., 198.
 Skeat, W. W., 93 (2), 94.
 Skottowe, B. C., 53.
 Sladen, D., 217.
 Slater, J. H., 26, 203.
 Slingo, W., 118.
 Sloane, T. O., 116, 117.
 Smart, W., 54 (2), 60.
 Smith, A., 55.
 Smith, B. E., 21, 215.
 Smith, C., 106.
 Smith, D. E., 103.
 Smith, E. F., 125.
 Smith, G. B., 162.
 Smith, H. P., 21.
 Smith, J., 146.
 Smith, J. B., 156, 188.
 Smith, J. P., 141.
 Smith, L., 99.
 Smith, N. A., 86, 87 (2).
 Smith, O., 187.
 Smith, R. H., 107.
 Smith, R. M., 49, 52.
 Smith, R. S., 111.
 Smith, Sir W., 39, 100, 213, 217, 220.
 Smith, W. R., 123.
 Smithells, A., 126.
 Smithsonian Institution, 12 (2).
 Snodgrass, W., 151.
 Snyder, W. H., 130.
 Soards, L., 229.
 Sobriquets and nicknames, 21.
 Social England, 47.
 Société mathématique d'Amsterdam, 15.
 Society of Telegraph Engineers, 15.
 Solly, S. E., 166.
 Sombart, W., 67.
 Somervell, R., 82.
 Sonnenschein, W. S., 9 (2), 82.
 Sonnenschein's cyclopædia of education,
 82.
 Soule, R., 95.
 South End House, Boston, 48.
 South Kensington Museum, 185, 189, 200
 (3), 202.
 Southward, J., 180.
 Soyeda, J., 62.
 Spahr, C. B., 57.
 Spalding, F. P., 173.
 Spanton, J. H., 105.
 Spears, J. R., 79.
 Spencer, H., 34, 41, 42, 81, 134.
 Spiers, A., 99.
 Spon, E., 160, 167.
 Spon, E. & F. N., 191.
 Spons' dictionary of engineering, 167.
 Spon's encyclopædia of the industrial
 arts, 161.

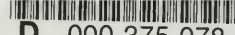
- Springsteed, A. F., 179.
 Spruner von Merz, K., 213 (2).
 Staley, C., 111.
 Stallybrass, J. S., 40.
 Stammhammer, J., 12, 13.
 Standard dictionary, 94.
 Stanford, E., 214, 215.
 Stanford's compendium of geography, 220, 223, 224, 226, 228, 232 (2).
 Stanley, H. M., 225.
 Stannus, H., 200.
 Stansbie, J. H., 188.
 Stanton, E. C., 52.
 Starr, E. G., 59.
 Starr, F., 130.
 Starr, M., 75.
 Statesman's year book, 22.
 Statham, H. H., 198, 199.
 Steam-heating problems, 193.
 Stebbing, F. C., 111.
 Stebbing, T. R. R., 155.
 Steele, F. M., 179.
 Stephen, L., 34, 35, 102, 218.
 Sternberg, G. M., 149.
 Stevens, A. P., 59.
 Stevens, J. E., 232.
 Stevenson, T., 164.
 Stewart, B., 116.
 Stieler, A., 214.
 Stillman, T. B., 123.
 Sterling, J. H., 27.
 Stockholm. K. Svenska vetenskaps-akademien, 78.
 Stohmann, F., 183.
 Stokes, A. C., 142.
 Stokois, A. M. H. J., 210.
 Stone, T. W., 114.
 Storer, F. H., 175.
 Stormonth, J., 94, 134.
 Storr, F., 82.
 Stout, G. F., 31.
 Strachey, R., 212.
 Strasburger, E., 144, 146.
 Stratton, S. S., 205.
 Strauss, A., 53.
 Stretton, C. E., 170.
 Strolls by starlight and sunshine, 135.
 Strong, H. A., 92 (2).
 Stubbs, A. J., 118.
 Stubbs, W., 72.
 Sturgis, R., 17, 198.
 Sturmey, H., 204.
 Subject index of literature of agricultural experiment stations, 8.
 Sully, J., 28, 29 (2), 30 (2), 31 (2).
 Sulz, C. H., 184.
 Sumner, W. G., 62, 63.
 Sutherland, A., 233.
 Sutherland, G., 233.
 Sverdrup, O., 234.
 Sveriges statskalender, 78.
 Sweet, H., 93, 96.
 Swete, H. B., 39.
 Sybel, H. von, 221.
 Sykes, J. F. J., 165.
 Sykes, W. J., 184.
 Symonds, J. A., 47.
 Taggart, W. S., 189.
 Taine, H. A., 47 (2), 207.
 Tait, P. G., 106 (2), 111 (2), 112.
 Talbot, H. P., 124.
 Talbot, M., 44.
 Tanger, G., 97.
 Tarr, R. S., 129, 132.
 Taschenberg, E. L., 150.
 Taschenberg, O., 16.
 Tate, T., 81.
 Taussig, F. W., 54, 68 (2).
 Tayler, A. J. W., 171, 173, 191.
 Taylor, A., 66.
 Taylor, I., 138, 212.
 Taylor, J. E., 146.
 Taylor, R. W. C., 69.
 Taylor, S., 65.
 Teale, T. P., 174.
 Teall, F. H., 93.
 Technological dictionary of insurance chemistry, 183.
 Ten Bruggencate, K., 98.
 Terry, G., 185.
 Teuffel, W. S., 208.
 Thayer, J. H., 19.
 Thesaurus of English words and phrases, 95.
 Thilly, F., 28.
 Thomas, J., 212, 217.
 Thomas, T., 206 (2).
 Thompson, E. E. S., 153.
 Thompson, S. P., 115, 116, 118.
 Thoms, H., 184.
 Thomson, Sir C. W., 135.
 Thomson, J. A., 43, 150.
 Thomson, J. J., 117.
 Thomson, Sir W., see Kelvin, W. T., 1st Baron.
 Thorne, R., 21.
 Thornton, A., 113.
 Thornton, W. T., 58.
 Thorp, W., 183.
 Thorpe, B., 40.
 Thorpe, M., 223.
 Thorpe, T. E., 125, 132, 184.
 Threlfall, R., 122.
 Thümmel, K., 184.
 Thurston, R. H., 90, 114, 170, 192.
 Thwaites, R. G., 229.
 Thwing, C. F., 88.
 Tilden, W. A., 121.
 Tingle, J. B., 116.
 Titchener, E. B., 27, 30 (3), 31, 34.
 Tocqueville, A. de, 48.
 Todd, D. P., 108.
 Todhunter, I., 104 (3), 105, 114.
 Tolman, W. H., 77, 79.
 Tomn, L., 51.
 Topley, W., 15.
 Torrey, B., 135.
 Torrey Botanical Club, 8.
 Townsend, J. P., 62.
 Toynbee, A., 57.
 Toynbee, P., 99.
 Trail, J. W. H., 176.
 Traill, H. D., 47.
 Treadwell, A., 119.
 Trechmann, E., 98.
 Trevelyan, C. P., 51.
 Tribune almanac, 20.
 Trow Directory Co., 229.

- Trowbridge, J., 117.
 Trumbull, G., 157.
 Tsountas, C., 220.
 Tuckerman, A., 15.
 Tufts, J. H., 27.
 Turrets, towers, and temples, 198.
 Tuttle, H., 222.
 Two paths, 195.
 Tylor, E. B., 45, 138, 139.
 Tyndall, J., 115 (2), 116, 130.
 Ueberweg, F., 27.
 Ulzer, F., 123.
 Underhill, E. D., 48.
 Underwood, L. M., 148.
 United States government publications, 13.
 U. S. A. Civil Service Commission, 77, 78.
 U. S. A. Department of Agriculture, 8 (3).
 U. S. A. Department of the Interior, Bureau of Education, 14.
 U. S. A. Department of the Interior, Census Office, 77.
 U. S. A. Department of the Interior, Geological Survey, 14.
 U. S. A. Department of the Interior, Superintendent of Documents, 13.
 U. S. A. Government Printing Office, Superintendent of Documents, 13 (2), 14 (2).
 U. S. A. Treasury Department, 63.
 U. S. A. Treasury Department, Bureau of Statistics, 50.
 U. S. A. Treasury Department, Immigration Investigating Commission, 52.
 U. S. A. War Department, Adjutant-General's Office, Military Information Division, 215 (2).
 Universal pronouncing dictionary of biography, 217.
 Unwin, W. C., 168.
 Upton, J. K., 68.
 Urbanitzky, A. von, 117.
 Urquardt, J. W., 118, 119.
 Van Cleve, B. F., 160.
 Van den Heuvel, J., 51.
 Van Laun, H., 207.
 Van Liew, C. C., 81.
 Van Liew, I. J., 81.
 Van Oss, S. F., 182.
 Vandervelde, E., 43.
 Vapereau, G., 217 (2).
 Veblen, T. B., 55, 67.
 Vega, S. von, 104.
 Veith, A., 185.
 Velazquez de la Cadena, M., 100.
 Verschoyle, J., 46.
 Verworn, M., 151.
 Villatte, C., 99.
 Vincent, B., 24.
 Vines, S. H., 145.
 Vinycomb, J., 26.
 Viollet-le-Duc, E. E., 198 (2), 199, 201.
 Visser, J., 79.
 Voorhees, T., 182.
 Waarenlexikon der chemischen industrie, 184.
 Wagner, R. von, 183 (2).
 Waldo, F., 131.
 Walford, E., 37.
 Walker, B. E., 62.
 Walker, F. A., 55, 62, 64.
 Walker, J., 121.
 Walker, T. A., 71.
 Wall, E. J., 204.
 Wallace, A. R., 135, 142 (2), 154 (2), 232.
 Wallace, W., 33 (2).
 Wallaschek, R., 205.
 Waller, T. H., 113.
 Walmsley, R. M., 117.
 Walpole, S., 52.
 Walsh, W. S., 24, 90.
 Walters, F. R., 163.
 Wanklyn, J. A., 124.
 Ward, H. M., 146, 176.
 Ward, J., 201 (2).
 Waring, G. E., Jr., 114, 174.
 Warman, P. C., 14.
 Warn, R. H., 187.
 Warner, A. G., 79.
 Warner, F., 86.
 Warr, G. C. W., 208.
 Warren, C., 226.
 Washburn, M. F., 34.
 Waterworth, J. A., 60.
 Watson, J., 38.
 Watt, A., 189.
 Watts, H. E., 183.
 Watts, W. A., 204.
 Watts, W. W., 129.
 Wayte, W., 220.
 Webb, B. P., 62 (2), 66.
 Webb, H. J., 175.
 Webb, S., 62 (2), 76.
 Weber, A., 28.
 Webster, N., 94 (2).
 Wegele, F. X., 218.
 Weidinger, G., 184.
 Weisbach, J., 168.
 Weismann, A., 140, 141 (2).
 Weitenkampf, F., 217.
 Weld, L. G., 103.
 Welldon, E. A., 82.
 Wells, D. A., 57.
 Wells, H. L., 124.
 Wenström, E., 98.
 Wentworth, G. A., 104.
 Werge, J., 204.
 Werner, A., 122.
 Westermarck, E., 91.
 Westrin, T., 25.
 Weyl, T., 164.
 Wheatley, H. B., 19.
 Wheeler, B. I., 92.
 Wheeler, C. G., 9, 20.
 Wheeler, W. A., 9, 20.
 Where three empires meet, 224.
 Whipple, F. H., 118.
 Whitaker, J., 22.
 Whitaker, W., 15.
 White, A. T., 61.
 White, G., 201.
 White, H., 63.
 White, H. S., 221.
 White, R. G., 93.
 Whitney, W. D., 21, 92, 96, 98.

- Who wrote it? 9.
 Who's who? 217.
 Who is who in America, 218.
 Wiedersheim, R., 152.
 Wiggin, K. D., 86, 87 (2).
 Wight, O. W., 38.
 Wigley, T. B., 188.
 Wilcox, D. F., 76.
 Wiley, H. W., 123.
 Willard, E. W., 87.
 Willey, A., 157.
 Williams, C. F., 71.
 Williams, C. M., 32, 36.
 Williams, H. S., 133.
 Williams, S. W., 48.
 Williams, W. C., 121.
 Williams & Co., 229, 230.
 Williamson, B., 107.
 Willoughby, W. F., 60.
 Willoughby, W. W., 50.
 Willsey, J. H., 22.
 Wilson, A., 139.
 Wilson, E. B., 134, 142.
 Wilson, E. L., 204.
 Wilson, H. S., 171.
 Wilson, J. G., 218, 210.
 Wilson, L. L. W., 87.
 Wilson, M. E., 31.
 Wilson, W., 51.
 Windelband, W., 27.
 Windle, B. C. A., 137.
 Wines, F. H., 36, 80.
 Wing, H. H., 177.
 Winning of the West, 231.
 Winsor, J., 213, 225, 228 (2).
 Winter, A., 80.
 Wirth, M., 62.
 Wisconsin state gazetteer, 231.
 Wise, M. E., 88.
 Wislicenus, J., 122.
 Withers, H. L., 82.
 Wodehouse, Mrs. E., 205.
 Wolff, H. W., 61, 65.
 Wood, D. V., 170.
 Wood, G. B., 166.
 Wood, H. C., 166.
 Woodhead, G. S., 148.
 Woodrow, F., 60.
 Woods, F. H., 223.
 Woods, F. S., 106.
 Woods, H., 133.
 Woods, R. A., 43, 47, 48.
 Woodward, B. B., 150.
 Woodward, C. M., 88.
 Woodward, R. S., 103.
 Wood-working tools, 192.
 Woodworth, W. M., 152.
 Woolsey, T. D., 50, 71.
 Woolsey, T. S., 71 (2).
 Wooster, D., 144.
 Worcester, D. C., 232.
 Worcester, J. E., 95.
 Workshop receipts, 160.
 World almanac, 22.
 Wormell, R., 82, 117.
 Woorsaae, J. J. A., 137 (2).
 Worthen, W. E., 201.
 Worthington, T. L., 62.
 Wright, A. G., 231.
 Wright, C. D., 42, 58.
 Wright, J., 96.
 Wright, L., 115, 116.
 Wright, M. O., 158.
 Wright, R. P., 177.
 Wright, W. A., 37.
 Wundt, W., 30 (2), 34.
 Wurtz, A., 120 (4).
 Wurtz, C. A., see Wurtz, A.
 Wyckoff, W. A., 59.
 Year book of photography, 204.
 Yeats, J., 162.
 Youmans, W. J., 103.
 Young, C. A., 108, 110.
 Young, F. C., 193.
 Young, J. J., 199.
 Youngman, W., 39.
 Zaehnsdorf, J. W., 191.
 Zahm, J. A., 115.
 Zeller, E., 37 (3).
 Zeman, J. H., 59.
 Zenker, E. V., 67.
 Zeublin, C., 59.
 Zimmermann, A., 143.
 Zittel, K. von, 128.

UNIVERSITY OF CALIFORNIA LIBRARY
Los Angeles

This book is DUE on the last date stamped below.


D 000 375 078

